

CODING DECODING

TYPE -1

LETTER - CODING - In this type of question the letter in a word is replaced by certain other letter according to a specific rule to form its code.

(a) To form the code from another word

Ex. In a certain code TEACHER is written as VGCEJGT. How is CHILDREN written in that code.

T	E	A	C	H	E	R
+2↓	+2↓	+2↓	+2↓	+2↓	+2↓	+2↓
V	G	C	E	J	G	T
C	H	I	L	D	R	E
+2↓	+2↓	+2↓	+2↓	+2↓	+2↓	+2↓
E	J	K	N	F	T	G

(b) Find the word by analysing the given code.

Ex. If NARGRUED is the code for GRANDEUR which word is coded as SERPEVRE ?

G	R	A	N	D	E	U	R
1	2	3	4	5	6	7	8
4	3	2	1	8	7	6	5
N	A	R	G	R	U	E	D
S	E	R	P	E	V	R	E
1	2	3	4	5	6	7	8
4	3	2	1	8	7	6	5
P	R	E	S	E	R	V	E

TYPE -2

In this type questions some particular words are assigned certain substituted names.

1. If the animals which can walk are called 'swimmers', animals who crawl are called 'flying', those living in water are called 'snakes' and those which fly in the sky are called 'hunters', then what will a lizard be called ?

- (a) Swimmers
(b) Snakes

(c) Flying

(d) Hunters

2. If 'air' is called 'green', 'green' is called 'blue', 'blue' is called 'sky', 'sky' is called 'yellow', 'yellow' is called 'water' and 'water' is called 'pink', then what is the colour of clear sky?

- (a) Blue (b) Sky
(c) Yellow (d) Water

Sol. (c) Clearly, a lizard crawls and the animals that crawl are called 'flying'. So, a lizard is called 'flying'.

Sol. (b) The colour of clear sky is 'blue' and as given, 'blue' is called 'sky'. So, the colour of clear sky is 'sky'.

TYPE -3

In this type of questions either numerical code values are assigned to a word or alphabetical code letters are assigned to the numbers.

1. If ACNE can be coded as 3, 7, 29, 11, then BOIL will be coded as

- (a) 5, 29, 19, 27
(b) 5, 29, 19, 25
(c) 5, 31, 21, 25
(d) 5, 31, 19, 25

Sol. (d)

A	B	C	D	E	F	G	H	I
3	5	7	9	11	13	15	17	19
K	L	M	N	O	J			
23	25	27	29	31	21			

BOIL = 5, 31, 19, 25

2. If O = 16, FOR = 42, then what is FRONT equal to ?

- (a) 61 (b) 65
(c) 73 (d) 78

Sol. (d) we have $A \times 2 + B \times 3 + \dots + z \times 27$
For = $F + O + R$

$$= 7 + 16 + 19 = 42$$

$$\text{FRONT} = F + R + O + N + T = 7 + 19 + 16 + 15 + 21 = 78$$

TYPE -4

Directions (1-5) : Read the following information to answer the given questions.

In a certain code language, 'India will lose test series' is written as 'mo ra tic da su', 'Australia will be champion' is written as 'dic da phi cha', 'Australia win the series' is written as 'pa phi mo ki', 'India must win' is written as 'la ki tic' and 'test champion' is written as 'dic ra'.

- What is the code for 'lose' ?
(a) mo (b) ra
(c) tic (d) su
- What does 'be' stand for?
(a) phi (b) mo
(c) dic (d) cha
- Which of the following is the code for 'Australia must test' ?
(a) ra la cha (b) phi la ra
(c) la phi dic (d) phi dic ra
- 'ki ra tic' could be a code for which of the following ?
(a) India win series
(b) India must lose
(c) India win test
(d) must be win
- Which of the following represent 'Australia never lose series' ?
(a) su phi go cha
(b) phi su go mo
(c) su da mo na
(d) phi cha go ki

Solution (1-5)

India will lose test series ® mo ra tic da su (1)

Australia will be champion ® dic da phi cha (2)

Australia win the series ® pa phi mo ki (3)

India must win ® la ki tic (4)

test champion ® dic ra (5)

From (1) and (2), will ® da

From (1) and (3), series ® mo
 From (1) and (4), India ® tic
 From (1) and (5), test ® ra
 From (5), champion ® dic
 From (2) and (3), Australia ® phi
 From (2), be ® cha
 From (1), lose ® su
 From (3) and (4), win ® ki
 From (4), must ® la

Sol. (d)

Sol. (d)

Sol. (b) Australia must test
 - - -

phi la ra

Sol. (c) ki ra tic
 - - -

win test India

Sol. (b) Australia never lose series
 - - - -

phi go su mo

TYPE -1

- If in a certain code, LUTE is written as MUTE and FATE is written as GATE, then how will BLUE be written in that code ?
 (a) CLUE (b) GLUE
 (c) FLUE (d) SLUE
- If in a certain language, MADRAS is coded as NBESBT, how is BOMBAY coded in that language ?
 (a) CPNCBX (b) CPNCBZ
 (c) CPOCBZ (d) CQOCBZ
- If FISH is written as EHRG in a certain code, how would JUNGLE be written in that code ?
 (a) ITMFKD (b) ITNFKD
 (c) KVOHMF (d) TIMFKD
- In a certain code, TWINKLE is written as SVHMJKD, then how would FILTERS be written in the same code ?
 (a) EHKSDQR (b) EHKUDQR
 (c) EGKUDQR (d) GJMSFST
- In a certain code, ROAD is written as URDG. How is SWAN written in that code ?
 (a) VXDQ (b) VZDQ
 (c) VZCP (d) UXDQ
- In a certain code language, OPERATION is written as NODQZSHNM. How is INVISIBLE written in that code?

- (a) JOWJTJCMF
 (b) JOWJTHAKD
 (c) HMUHTJCMF
 (d) HMUHRHAKD
- In a certain code, FAVOUR is written as EBUPTS. How is DANGER written in that code ?
 (a) CBFFDS (b) CBMHDS
 (c) EBFHDS (d) EBHHFS
- If SUMMER is coded as RUNNER, the code for WINTER will be
 (a) SUITER (b) VIOUER
 (c) WALKER (d) SUFFER
- In a certain code, PRODUCTIONS is written as QQPCVEUHPMT. How is ORIENTATION written in that code ?
 (a) PQJDOVBSJNO
 (b) PQJDOUBUJPO
 (c) PSJFOVBSJNO
 (d) NSHFMVBSJNO
- If, in a code, MIND becomes KGLB and ARGUE becomes YPESC, then what will DIAGRAM be in that code ?
 (a) BGYEPYK (b) BGYPYEK
 (c) GLPEYKGB (d) LKBGYPK
- In a certain code, BASIC is written as DDULE. How is LEADER written in that code ?
 (a) NGCFGF (b) NHCGGU
 (c) OGDFHT (d) OHDGHU
- In a certain language, SIGHT is written as FVTUG. How is REVEAL written in the same language ?
 (a) YNRIRE (b) DQHQMXX
 (c) FSJSOZ (d) ERIRNY
- If in a certain language, MIRACLE is coded as NKUEHRL, then how is GAMBLE coded in that language ?
 (a) JDOCMF (b) CLEMNK
 (c) HCPFQK (d) AELGMN
- If in a certain code, GLAMOUR is written as IJCNMWP and MISRULE is written as OGUSSNC, then how will TOPICAL be written in that code ?
 (a) VMRJECN (b) VMRHACJ
 (c) VMRJACJ (d) VNRJABJ
- In a certain code, BELIEF is written as AFKKDI. how is SELDOM written in the code ?

- (a) RDKCNL (b) RFKENM
 (c) RFKFNP (d) TFKENP
- If in a certain language, POPULAR is coded as QPQVMBS, then the code 'GBNPVT' is used for which word?
 (a) FARMER (b) FAMOUS
 (c) FRAMES (d) FARMES
- If in a certain language, UTENSIL is coded as WVGPUKN, then the code 'DMSFXG' is used for which word?
 (a) BKQEVE (b) BKQDWE
 (c) BKQDWF (d) BKQDVE
- If ROBUST is coded as QNATRS in a certain language, which word would be coded as ZXCMP ?
 (a) BZEOR (b) AYDNQ
 (c) AWDLQ (d) YWBLO
- If EHFNRQ is the code for BECKON, then the code 'QDFWXULQ' is used for which word?
 (a) NCAUTIRN (b) NACUTIRN
 (c) NATCRIUN (d) NACTURIN
- In a certain code, REFRIGERATOR is coded as ROTAREGIRFER. Which word would be coded as NOITINUMMA ?
 (a) ANMOMIUTNI
 (b) AMNTOMUIIN
 (c) AMMUNITION
 (d) NMMUNITIOA
- If in a certain language, GRASP is coded as BMVKN, then how the word 'CRANE' will be coded?
 (a) FUDQH (b) HWFSJ
 (c) GVERI (d) XMVIZ
- If in certain code, COVET is written as FRYHW, then the code 'SHDUO' is used for which word?
 (a) QUAKE (b) REPAY
 (c) STINK (d) PEARL
- If in a certain language, TRIANGLE is coded as SQHZMFKD, then the code 'DWZLOKD' is used for which word?

- (a) EXAMPLE (b) FIGMENT
(c) DISMISS (d) DISJOIN
24. If in a certain code, SWITCH is written as TVJSDG, then the code 'CQFZE' is used for which word?
(a) BARED (b) BRAED
(c) BREAD (d) BRADE
25. In a certain code, DECEMBER is written as ERMBCEDE. Which word will be written as ERMBVENO in that code ?
(a) AUGUST (b) SEPTEMBER
(c) OCTOMBER (d) NOVEMBER

TYPE -2

1. If 'white' is called 'blue', 'blue' is called 'red', 'red' is called 'yellow', 'yellow' is called 'green', 'green' is called 'black', 'black' is called 'violet' and 'violet' is called 'orange', what would be the colour of human blood ?
(a) Red (b) Green
(c) Yellow (d) Violet
2. If 'oranges' are 'apples', 'bananas' are 'apricots', 'apples' are 'chillies', 'apricots' are 'oranges' and 'chillies' are 'bananas', then which of the following are green in colour ?
(a) Apricots (b) Apples
(c) Chillies (d) Bananas
3. If 'pen' is 'table', 'table' is 'fan', 'fan' is 'chair' and 'chair' is 'roof', on which of the following will a person sit ?
(a) Fan (b) Chair
(c) Roof (d) Table
4. If 'bat' is 'racket', 'racket' is 'football', 'football' is 'shuttle', 'shuttle' is 'ludo' and 'ludo' is 'carom', what is cricket played with ?
(a) Racket (b) Football
(c) Bat (d) Shuttle
5. If 'sky' is 'star', 'star' is 'cloud', 'cloud' is 'earth', 'earth' is 'tree' and 'tree' is 'book', then where do the birds fly ?
(a) Cloud
(b) Sky

- (c) Star
(d) Data inadequate
6. If 'room' is called 'bed', 'bed' is called 'window', 'window' is called 'flower' and 'flower' is called 'cooler' on what would a man sleep?
(a) Window (b) Bed
(c) Flower (d) Cooler
7. If 'book' is called 'watch', 'watch' is called 'bag', 'bag' is called 'dictionary' and 'dictionary' is called 'window', which is used to carry the books ?
(a) Dictionary (b) Bag
(c) Book (d) Watch
8. If 'cushion' is called 'pillow', 'pillow' is called 'mat', 'mat' is called 'bedsheet' and 'bedsheet' is called 'cover', which will be spread on the floor ?
(a) Cover (b) Bedsheet
(c) Mat (d) Pillow
9. If 'orange' is called 'butter', 'butter' is called 'soap', 'soap' is called 'ink', 'ink' is called 'honey' and 'honey' is called 'orange', which of the following is used for washing clothes ?
(a) Honey (b) Butter
(c) Orange (d) Ink
10. If 'sand' is called 'air', 'air' is called 'plateau', 'plateau' is called 'well', 'well' is called 'island' and 'island' is called 'sky', then from where will a woman draw water ?
(a) Well (b) Island
(c) Sky (d) Air
11. If 'bangle' is called 'cassette', 'cassette' is called 'table', 'table' is called 'game' and 'game' is called 'cupboard', then which is played in the tape recorder ?
(a) Bangle (b) Cassette
(c) Table (d) Cupboard
12. If 'black' means 'pink', 'pink' means 'blue', 'blue' means 'white', 'white' means 'yellow', 'yellow' means 'red' and 'red' means 'brown', then what is the colour of clear sky ?
(a) Brown (b) Red
(c) Blue (d) White
13. If 'rain' is 'water', 'water' is 'road', 'road' is 'cloud', 'cloud' is 'sky',

'sky' is 'sea' sea is 'path', where do aeroplanes fly ?

- (a) Road (b) Sea
(c) Cloud (d) Water
14. If 'water' is called 'food', 'food' is called 'tree', 'tree' is called 'sky', 'sky' is called 'wall', on which of the following grows a fruit ?
(a) Water (b) Food
(c) Sky (d) Tree
15. If 'dust' is called 'air', 'air' is called 'fire', 'fire' is called 'water', 'water' is called 'colour', 'colour' is called 'rain' and 'rain' is called 'dust', then where do fish live?
(a) Fire (b) Water
(c) Colour (d) Dust
16. If 'train' is called 'bus', 'bus' is called 'tractor', 'tractor' is called 'car', 'car' is called 'scooter', 'scooter' is called 'bicycle', 'bicycle' is called 'moped', which is used to plough a field ?
(a) Train (b) Bus
(c) Tractor (d) Car
17. If 'lead' is called 'stick', 'stick' is called 'nib', 'nib' is called 'needle', needle is called 'rope' and 'rope' is called 'thread', what will be fitted in a pen to write with it ?
(a) Stick (b) Lead
(c) Needle (d) Nib
18. If 'light' is called 'morning', 'morning' is called 'dark', 'dark' is called 'night', 'night' is called 'sunshine' and 'sunshine' is called 'dusk', when do we sleep ?
(a) Night (b) Sunshine
(c) Dusk (d) Dark
19. If 'rose' is called 'poppy', 'poppy' is called 'lily', 'lily' is called 'lotus' and 'lotus' is called 'gladiola', which is the king of flowers ?
(a) Rose (b) Lotus
(c) Poppy (d) Gladiola
20. If 'rat' is called 'dog', 'dog' is called 'mongoose', 'mongoose' is called 'lion', 'lion' is called 'snake' and 'snake' is called 'elephant', which is reared as pet ?
(a) Rat (b) Dog
(c) Mongoose (d) Lion
21. If 'blue' means 'green', 'green' means 'white', 'white' means

'yellow', 'yellow' means 'black', 'black' means 'red' and 'red' means 'brown', then what is the colour of milk ?

- (a) Black (b) Brown
(c) Blue (d) Yellow
22. If 'paper' is called 'wood', 'wood' is called 'straw', 'straw' is called 'grass', 'grass' is called 'rubber' and 'rubber' is called 'cloth', what is the furniture made up of ?
(a) Paper (b) Wood
(c) Straw (d) Grass
23. If 'man' is called 'girl', 'girl' is called 'woman', 'woman' is called 'boy', 'boy' is called 'butler' and 'butler' is called 'rogue', who will serve in a restaurant ?
(a) Butler (b) Girl
(c) Man (d) Rogue
24. If, in a language, 'finger' is called 'toe', 'toe' is called 'foot', 'foot' is called 'thumb', 'thumb' is called 'ankle', 'ankle' is called 'palm' and 'palm' is called 'knee', then in that language, what will an illiterate man put to mark his signatures ?
(a) Toe (b) Knee
(c) Thumb (d) Ankle
25. If 'wall' is called 'window', 'window' is called 'door', 'door' is called 'floor', 'floor' is called 'roof' and 'roof' is called 'ventilator', what will a person stand on ?
(a) Window (b) Wall
(c) Floor (d) Roof
26. If 'eraser' is called 'box', 'box' is called 'pencil', 'pencil' is called 'sharpener' and 'sharpener' is called 'bag', what will a child write with ?
(a) Eraser (b) Box
(c) Pencil (d) Sharpener
27. If 'clock' is called 'television', 'television' is called 'radio', radio is called 'oven', 'oven' is called 'grinder' and 'grinder' is called 'iron', in what will a lady bake ?
(a) Radio (b) Oven
(c) Grinder (d) Iron
28. On another planet, the local terminology for 'earth', 'water', 'light', 'air' and 'sky' are 'sky', 'light', 'air', 'water' and 'earth' respectively. If someone is thirsty there, what would he drink ?

- (a) Light (b) Air
(c) Sky (d) Water

TYPE -3

1. If REQUEST is written as S2R52TU, then how will ACID be written ?
(a) 1394 (b) IC94
(c) BDJE (d) None of these
2. If each of the letters in the English alphabet is assigned odd numerical value beginning A = 1, B = 3 and so on, what will be the total value of the letters of the word INDIAN ?
(a) 86 (b) 88
(c) 89 (d) 96
3. In a certain code, the word DEAL is coded as 4 - 5 - 1 - 12. Following the same rule of coding, what should be the code for the word LADY ?
(a) 12 - 4 - 1 - 25
(b) 12 - 1 - 4 - 25
(c) 10 - 1 - 4 - 23
(d) 12 - 1 - 4 - 22
4. If A = 2, M = 26, Z = 52, then BET = ?
(a) 44 (b) 54
(c) 64 (d) 72
5. If A = 26, SUN = 27, then CAT = ?
(a) 24 (b) 27
(c) 57 (d) 58
6. If in a certain code, BAT = 23 and CAT = 24, then how will you code BALL ?
(a) 27 (b) 28
(c) 32 (d) 120
7. If GO = 32, SHE = 49, then SOME will be equal to
(a) 56 (b) 58
(c) 62 (d) 64
8. If AT = 20, BAT = 40, then CAT will be equal to
(a) 30 (b) 50
(c) 60 (d) 70
9. If ZIP = 198 and ZAP = 246, then how will you code VIP ?
(a) 174 (b) 222
(c) 888 (d) 990
10. If DEER = 12215 and HIGH = 5645, how will you code HEEL ?
(a) 2328 (b) 3449
(c) 4337 (d) 5229
11. If E = 5 and HOTEL = 12, how will you code LAMB ?

- (a) 7 (b) 10
(c) 26 (d) 28

12. If ZEBRA can be written as 2652181, how can COBRA be written ?
(a) 302181 (b) 3152181
(c) 31822151 (d) 1182153
13. If WORK is coded as 4 - 12 - 9 - 16, then how will you code WOMAN ?
(a) 4 - 12 - 14 - 26 - 13
(b) 4 - 26 - 14 - 13 - 12
(c) 23 - 12 - 26 - 14 - 13
(d) 23 - 15 - 13 - 1 - 14

TYPE -4

Directions (1-5) : Study the following information to answer the given question.

In a certain code, 'rising prices are main problem' is written as 'ku poo qi da su', 'control the prices rising more rapidly' is written as 'ja qi chi nic poo dic', 'control inflation problem' is written as 'da 'chi pic', 'more prices affect badly' is written as 'nic ra poo mo,' and 'poors are rapidly affect' is written as 'tic dic ku ra'.

1. What is the code for 'the' ?
(a) qi (b) ja
(c) poo (d) nic
2. What does 'tic' stand for ?
(a) rapidly (b) affect
(c) poors (d) are
3. Which of the following may be the code for 'control badly affect problem' ?
(a) mo chi nic ra
(b) ra chi da mo
(c) da qi mo su
(d) su da ra nic
4. Which of the following may be the code for 'rising inflation are main concern' ?
(a) su phi poo ku pic
(b) pic ku su phi qi
(c) nic ra qi su da
(d) ra su nic qi da
5. Which of the following is written as 'nic dic ra poo' ?
(a) rapidly affect more poors
(b) more prices affect rapidly
(c) rising problem affect badly
(d) control rapidly rising problem

Directions (6–10) : Study the following information to answer the given questions

In a certain code, 'nuclear plants are safe' is written as 'tic da pic ki', 'conserve safe nuclear energy' is written as 'pic ra ki su', 'new plants conserve radiation' is written as 'ba su tic mo' and 'prevent from nuclear radiation' is written as 'gi mo ki fa'.

6. What is the code for conserve ?
(a) pi (b) ra
(c) su (d) ki
7. What does 'da' stand for ?
(a) plants (b) energy
(c) safe (d) are
8. Which of the following is the code for 'new energy from plants' ?
(a) ra tic fa ba (b) fa ra pic tic
(c) tic gi ki fa (d) None
9. Which of the following is represented by the code 'pic ba mo da' ?
(a) new radiation are safe
(b) prevent plants conserve from
(c) plants are prevent radiation
(d) conserve new radiation from
10. Which of the following may be the code for 'new nuclear deal from America' ?
(a) ba ki tic chi gi or fa
(b) gi nic mo ba ra
(c) ra chi gi mo tic
(d) ki chi nic ba fa or gi

Directions (11–15) : Study the following information to answer the given questions :

In a certain code, 'more money in market' is written as 'zo li aa to', 'share in market profit' is written as 'vo to je li', 'making more profit now' is written as 'su je zo ka', 'now the market gains' is written as 'do li yo su'.

11. What does 'vo' stand for ?
(a) profit (b) in
(c) share (d) market
12. What is the code for 'making' ?
(a) ka (b) su
(c) je (d) zo
13. Which of the following is the code for 'gains' ?
(a) su (b) do
(c) yo (d) Either yo or do

14. Which of the following may be the code for the more gains share ?
(a) do yo zo vo (b) vo wi zo do
(c) vo zo wi bu (d) yo je vo wi
15. 'to ka li aa' is a code for which of the following ?
(a) share more in market
(b) now share more gains
(c) the gains in market
(d) making money in market

Directions (16–20) : Study the following information and answer the given questions.

In a certain code language, 'global recession is critical phase' is written as 'su zo ti ra mo', 'recession affects economy' is written as 'chi mo nic', 'global economy going down' is written as 'fa nic ti ye', 'kiked rates down growth' is written as 'phi ye koo da' and 'critical rates' is written as 'su phi'.

16. What is the code for 'phase' ?
(a) su (b) zo
(c) ra (d) Either zo or ra
17. What does 'fa' stand for ?
(a) global (b) down
(c) economy (d) going
18. Which of the following is the code for 'critical rates affects growth' ?
(a) koo da phi chi
(b) phi su da chi
(c) ti da zo chi
(d) su phi chi da or koo
19. Which of the following is represented by the code 'mo ye su phi' ?
(a) economy is critical down
(b) recession affects down rates
(c) critical recession down rates
(d) down economy growth rates
20. Which of the following may be the code for 'world is overcome through critical phase' ?
(a) nic zo su ra mo pic
(b) pic zo ra su vo bi
(c) su pic ye zo ra fa
(d) ti ra su chi mo zo

Directions 21–25 : Study the following information to answer the given questions.

In a certain code, 'launch prosecution in corruption cases' is written as 'jo ti pic su nic', 'India launch new laws' is written as 'dic sha chi ti', 'new cases to investigate' is written as 'za pic dic kee', and 'corruption curbs laws' is written as 'chi ba nic'.

21. What is the code for 'prosecution' ?
(a) jo
(b) ti
(c) pic
(d) Can't be determined
22. What does 'za' stand for ?
(a) new
(b) to
(c) investigate
(d) Either to or investigate
23. What is the code of 'India curbs cases' ?
(a) pic tic ba (b) sha chi pic
(c) ba sha pic (d) pic sha nic
24. 'pic da chi' could be a code for which of the following ?
(a) new laws cases
(b) laws cases arise
(c) investigate corruption case
(d) India to laws
25. Which of the following may represent 'transparency in new prosecution' ?
(a) su dic mac ti
(b) dic mac jo chi
(c) dic jo nic su
(d) jo dic su mac

Directions (26–30) : Study the following information to answer the given questions.

In a certain code language, 'cool waves chilled weather' is written as 'ti chi su pic', 'January is cool month' is written as 'ro mo su da', 'lovely month chilled season' is written as 'mo pic ki nic' and 'December is cool season' is written as 'su nic ro ne'.

26. What is the code for 'weather' ?
(a) pic
(b) su
(c) chi
(d) Can't be determined
27. What does 'da' stand for ?
(a) cool (b) is
(c) January (d) month
28. Which of the following is the code for 'chilled December' ?

- (a) ro pic (b) nic su
(c) pic nic (d) ne pic
29. 'ki, su ro' is the code for
(a) cool lovely season
(b) lovely chilled month
(c) cool waves is
(d) cool is lovely
30. Which of the following may be the code fog 'dense for lovely weather' ?
(a) mo ku su ti
(b) ye chi ti su
(c) zo ki wo ti
(d) zo sy ti mo

TYPE -5

Directions (1 – 4): In each of the following questions, a word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in the two given matrices. The columns and rows of Matrix I are numbered from 0 to 4 and those of Matrix II from 5 to 9. A letter from these matrices can be represented first by its row and then the column number e.g., in the matrices for question 1 to 4, M can be represented by 14, 21, etc.; O can be represented by 20, 32, etc. Similarly you have to identify the correct set for the word given in each question.

Matrix I

	0	1	2	3	4
0	F	O	M	S	R
1	S	R	F	O	M
2	O	M	S	R	F
3	R	F	O	M	S
4	M	S	R	F	O

Matrix II

	5	6	7	8	9
5	A	T	D	I	P
6	I	P	A	T	D
7	T	D	I	P	A
8	P	A	T	D	I
9	D	I	P	A	T

1. MOST
(a) 40, 44, 22, 89
(b) 33, 20, 11, 79
(c) 21, 00, 03, 88
(d) 02, 13, 34, 56
2. ROAD
(a) 42, 32, 79, 58
(b) 23, 32, 98, 99
(c) 11, 13, 67, 69
(d) 04, 20, 55, 78
3. STOP
(a) 10, 56, 44, 97

- (b) 41, 68, 01, 77
(c) 22, 75, 32, 86
(d) 33, 99, 42, 59
4. FOAM
(a) 24, 01, 55, 22
(b) 00, 01, 67, 33
(c) 12, 13, 67, 23
(d) 43, 52, 56, 33

Questions 5 – 9

Matrix I

	0	1	2	3	4
0	A	E	S	T	H
1	T	H	A	E	S
2	E	S	T	H	A
3	H	A	E	S	T
4	S	T	H	A	E

Matrix II

	5	6	7	8	9
5	P	O	R	K	L
6	K	L	P	O	R
7	O	R	K	L	P
8	L	P	O	R	K
9	R	K	L	P	O

5. EAST
(a) 44, 32, 21, 30
(b) 32, 31, 02, 04
(c) 20, 43, 33, 11
(d) 13, 12, 14, 10
6. ROSE
(a) 95, 75, 02, 32
(b) 88, 76, 31, 32
(c) 86, 67, 33, 44
(d) 57, 87, 32, 33
7. SOLE
(a) 41, 57, 87, 31
(b) 33, 99, 66, 44
(c) 21, 75, 44, 02
(d) 02, 78, 87, 13
8. LAKE
(a) 97, 00, 77, 12
(b) 66, 12, 58, 40
(c) 85, 31, 77, 44
(d) 77, 43, 76, 31
9. LEST
(a) 97, 32, 21, 34
(b) 87, 32, 21, 31
(c) 85, 02, 04, 22
(d) 66, 00, 20, 34

Questions 10 – 14

Matrix I

	0	1	2	3	4
0	F	A	N	O	I
1	I	O	F	A	N
2	A	N	O	I	F
3	O	F	I	N	A
4	N	I	A	F	O

Matrix II

	5	6	7	8	9
5	S	E	H	B	T
6	H	S	E	T	B
7	B	T	S	E	H
8	E	H	T	B	S
9	T	S	E	H	B

10. NEST
(a) 02, 56, 55, 59
(b) 14, 67, 66, 67
(c) 21, 76, 77, 76
(d) 33, 85, 88, 86
11. FAITH
(a) 43, 42, 41, 78, 89
(b) 31, 34, 23, 76, 79
(c) 24, 31, 10, 59, 57
(d) 12, 20, 40, 68, 65
12. FINE
(a) 31, 32, 33, 82
(b) 24, 19, 21, 78
(c) 12, 10, 13, 67
(d) 00, 04, 02, 56
13. HEAT
(a) 79, 53, 20, 87
(b) 65, 56, 13, 57
(c) 57, 56, 01, 59
(d) 29, 85, 34, 93
14. BOTH
(a) 88, 30, 85, 86
(b) 75, 22, 76, 79
(c) 69, 67, 68, 59
(d) 58, 02, 68, 65

Questions 15 – 19

Matrix I

	0	1	2	3	4
0	D	O	B	A	I
1	O	B	A	I	D
2	B	A	I	D	O
3	A	I	D	O	B
4	I	D	O	B	A

Matrix II

	5	6	7	8	9
5	W	N	R	M	L
6	N	R	M	L	W
7	R	M	L	W	N
8	M	L	W	N	R
9	L	W	N	R	M

15. DRAW
(a) 41, 66, 23, 55
(b) 32, 75, 44, 76
(c) 23, 57, 30, 68
(d) 14, 89, 12, 78
16. BAND
(a) 43, 21, 97, 33
(b) 11, 21, 79, 41
(c) 34, 44, 66, 14
(d) 20, 30, 89, 23
17. BLOW
(a) 11, 68, 42, 69
(b) 21, 95, 33, 97
(c) 34, 68, 10, 88
(d) 34, 86, 44, 78
18. RAIN
(a) 57, 12, 31, 56
(b) 57, 21, 23, 79

- (c) 66, 44, 42, 96
(d) 75, 30, 31, 87

19. LAMB

- (a) 68, 21, 58, 34
(b) 77, 44, 76, 33
(c) 86, 21, 67, 12
(d) 95, 30, 80, 20

Directions (20-24) : The hundred cells in the square below have been filled with letters. The columns and the rows are identified by the numbers 0 to 9. A letter in a cell is represented first by its column number and then by its row number e.g., G in column 3 and row 1 is represented by 31. In each of the following questions, a word has been given which is represented by one of the four alternatives given under it. Find the correct alternative.

	0	1	2	3	4	5	6	7	8	9
0	I	L	B	P	K	N	H	S	A	E
1	M	A	Q	G	T	V	I	O	N	U
2	H	R	W	J	A	X	B	E	C	I
3	T	Y	A	I	U	U	O	N	J	F
4	F	O	B	M	E	G	U	K	W	R
5	A	C	L	J	X	R	A	A	X	T
6	P	S	U	E	Z	K	V	W	D	L
7	Z	D	Y	V	F	O	H	Y	I	O
8	M	I	Z	Q	E	A	U	F	I	S
9	P	E	O	D	E	U	Q	O	C	G

20. MIND

- (a) 01, 61, 73, 36
(b) 08, 61, 55, 44
(c) 34, 33, 50, 17
(d) 73, 33, 61, 17

21. JAIL

- (a) 32, 05, 25, 44
(b) 32, 05, 87, 96
(c) 35, 23, 26, 23
(d) 83, 65, 25, 44

22. BLOT

- (a) 20, 10, 71, 22
(b) 24, 10, 26, 48
(c) 34, 35, 63, 03
(d) 62, 25, 57, 95

23. JOKE

- (a) 32, 14, 56, 44
(b) 35, 14, 37, 78
(c) 83, 63, 40, 59
(d) 83, 71, 25, 36

24. OMIT

- (a) 14, 34, 88, 95
(b) 63, 44, 88, 03

- (c) 79, 09, 61, 41
(d) 97, 34, 62, 95

Direction (25): A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g. T can be represented by 00, 13, 30 etc., and R can be represented by 56, 79, 87 etc. Identify the set for the word **DEAL**.

25.

MATRIX-I						MATRIX-II					
	0	1	2	3	4		5	6	7	8	9
0	T	C	K	K	G	5	C	R	I	G	E
1	F	B	R	T	O	6	P	M	S	L	T
2	M	D	I	O	Q	7	E	Y	N	B	R
3	T	A	U	A	N	8	A	U	R	O	A
4	Y	K	P	R	Y	9	O	T	A	Q	K

- (a) 11, 23, 76, 68
(b) 21, 75, 97, 68
(c) 21, 32, 86, 89,
(d) 43, 75, 89, 69,

Direction (26): In the following question a word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in the two matrix given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II from 5 to 9. A letter from these matrices can be represented first by its row and next by column number For eg. "B" can be represented by 11, 30, etc. 'U' can be represented by 89 etc. Identify the set for the word **FISH**.

26.

MATRIX-I						MATRIX-II					
	0	1	2	3	4		5	6	7	8	9
0	M	L	F	H	B	5	L	K	S	U	N
1	H	B	M	L	F	6	U	N	I	K	S
2	L	F	H	B	M	7	K	S	U	N	I
3	B	M	L	F	H	8	N	I	K	S	U
4	F	H	B	M	L	9	S	U	N	I	K

- (a) 22, 81, 14, 69

- (b) 33, 86, 88, 41
(c) 33, 88, 67, 22
(d) 02, 67, 34, 88

Direction (27): In the following question, a word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in the 2 matrices given below. The columns and rows of Matrix-I are numbered from 0 to 4 and that of Matrix-II from 5 to 9. A letter from these matrices can be represented first by its row and next by column number. For example, 'W' can be represented by 13, 20 etc, 'H' can be represented by 66, 78 etc. Identify the set for the word **PENS**.

27.

MATRIX-I						MATRIX-II					
	0	1	2	3	4		5	6	7	8	9
0	P	W	N	I	S	5	A	E	R	O	H
1	I	S	P	W	N	6	O	H	A	E	R
2	W	N	I	S	P	7	E	R	O	H	A
3	S	P	W	N	I	8	H	A	E	R	O
4	N	I	S	P	W	9	R	O	H	A	E

- (a) 12, 67, 21, 30
(b) 43, 56, 13, 23
(c) 43, 56, 21, 42
(d) 31, 57, 21, 42

28. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix-II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g. : 'F' can be represented by 01, 13, 32, etc. and 'N' can be represented by 57, 69, 95 etc. Identify the set for the word **PEN**.

MATRIX-I						MATRIX-II					
	0	1	2	3	4		5	6	7	8	9
0	E	F	G	H	I	5	L	M	N	O	P
1	H	I	E	F	G	6	O	P	L	M	N
2	F	G	H	I	E	7	M	N	O	P	L
3	I	E	F	G	H	8	P	L	M	N	O
4	G	H	I	E	F	9	N	O	P	L	M

- (a) 66, 30, 95
(b) 85, 00, 95
(c) 86, 00, 95
(d) 65, 00, 95

29. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices from 0 to 4 and that of matrix II are numbered from 5 to 9. A letter from these matrices can be represented by 01, 13, 32, etc., and 'M' can be represented by 56, 68, 87, etc. Identify the set for the word **NIFE**.

MATRIX -I					MATRIX -II				
0	E	F	G	H	I	5	L	M	N
1	H	I	E	F	G	6	O	P	L
2	F	G	H	I	E	7	M	N	O
3	I	E	F	G	H	8	P	L	M
4	G	H	I	E	F	9	N	O	P

- (a) 95, 30, 32, 43
 (b) 95, 30, 31, 43
 (c) 57, 42, 31, 43
 (d) 57, 41, 32, 43
30. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of matrix-I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g. : 'A' can be represented by 00, 13 and 'T' can be represented by 56, 68, 89, etc. Identify the set for the word **TEMPT**.

MATRIX -I					MATRIX -II				
0	A	U	O	T	B	5	P	T	A
1	T	E	P	A	W	6	G	I	O
2	R	M	G	G	I	7	E	A	L
3	U	M	M	C	L	8	R	A	B
4	P	L	N	E	C	9	N	P	E

- (a) 56, 43, 32, 97, 10
 (b) 89, 43, 40, 12, 44
 (c) 10, 75, 32, 96, 78
 (d) 78, 11, 12, 96, 10
31. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of

numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of matrix I are numbered from 0 to 4 and that of matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., 'B' can be represented by 04, 11, 23, etc. and 'N' can be represented by 59, 66, 78, etc. Identify the set for the word **MILK**.

MATRIX -I					MATRIX -II				
0	M	L	F	H	B	5	L	K	S
1	H	B	M	L	F	6	U	N	I
2	L	F	H	B	M	7	K	S	U
3	B	M	L	F	H	8	N	I	K
4	F	H	B	M	L	9	S	U	N

- (a) 12, 67, 32, 99
 (b) 31, 86, 33, 87
 (c) 21, 76, 32, 95
 (d) 10, 67, 42, 88
32. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 3 and that of Matrix II are numbered from 4 to 7. A letter from these matrices can be represented first by its row and next by its column, e.g., 'A' can be represented by 00, 12, 21, etc. and 'T' can be represented by 02, 10, 23, etc. Identify that set for the word **LAMB**.

MATRIX-I					MATRIX-II				
0	A	M	T	I	4	E	B	L	U
1	T	I	A	M	5	L	U	E	B
2	I	A	M	T	6	U	E	B	L
3	M	T	I	A	7	B	L	U	E

- (a) 75, 21, 13, 45
 (b) 46, 12, 23, 57
 (c) 67, 33, 31, 66
 (d) 46, 32, 01, 74
33. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two

classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., 'A' can be represented by 55, 67, 86, etc and 'R' can be represented by 04, 23, 30, etc. Identify the set for the word **DOOR**.

MATRIX -I					MATRIX -II				
0	F	O	M	S	R	5	A	T	D
1	S	R	F	O	M	6	I	P	A
2	O	M	S	R	F	7	T	D	I
3	R	F	O	M	S	8	P	A	T
4	M	S	R	F	O	9	D	I	P

- (a) 69, 44, 20, 43
 (b) 76, 01, 44, 24
 (c) 95, 20, 44, 12
 (d) 57, 13, 32, 23
34. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 3 and that of Matrix II are numbered from 4 to 7. A letter from these matrices can be represented first by its row and next by its column, e.g. 'A' can be represented by 00, 33, 21, etc. and 'M' can be represented by 22, 30, 13, etc. Identify the set for the word **MEAL**.

MATRIX-I					MATRIX-II				
0	A	M	T	I	4	E	B	L	U
1	T	I	A	M	5	L	U	E	B
2	I	A	M	T	6	U	E	B	L
3	M	T	I	A	7	B	L	U	E

- (a) 13, 44, 23, 46
 (b) 22, 64, 54, 65
 (c) 30, 56, 21, 67
 (d) 01, 65, 12, 31
35. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives

are represented by two classes of alphabets as in two matrices, given below. The columns and rows of Matrix I are numbered 0 to 3 and that of Matrix II are numbered from 4 to 7. A letter from these matrices can be represented first by its row and next by its column e.g., 'A' can be represented by 00, 76 and 'S' can be represented by 11, 66. Identify the set for the word **PUSH**.

MATRIX-I

	0	1	2	3
0	A	D	G	H
1	P	S	V	Z
2	C	F	I	M
3	T	L	E	Q

MATRIX-II

	4	5	6	7
4	R	U	B	O
5	N	W	J	X
6	T	K	S	G
7	I	H	A	F

- (a) 10, 66, 45, 03
 (b) 30, 11, 54, 10
 (c) 10, 45, 66, 75
 (d) 01, 54, 66, 57

36. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., M can be represented by 14, 21, etc. and P can be represented by 59, 78, etc. Similarly, you have to identify the set for the word **MIST**.

MATRIX-I

	0	1	2	3	4
0	F	O	M	S	R
1	S	R	F	O	M
2	O	M	S	R	F
3	R	F	O	M	S
4	M	S	R	F	O

MATRIX-II

	5	6	7	8	9
5	A	T	D	I	P
6	I	P	A	T	D
7	T	D	I	P	A
8	P	A	T	D	I
9	D	I	P	A	T

- (a) 14, 89, 22, 88
 (b) 40, 58, 03, 56
 (c) 02, 58, 03, 86
 (d) 40, 77, 34, 98

37. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by

two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., 'A' can be represented by 24, 33 etc, and 'D' can be represented by 56, 69 etc. Similarly, identify the set for the word **BEAD**.

MATRIX-I

	0	1	2	3	4
0	I	E	A	O	U
1	A	O	U	I	E
2	E	I	O	U	A
3	O	U	E	A	I
4	U	A	I	E	O

MATRIX-II

	5	6	7	8	9
5	F	D	B	G	H
6	B	G	H	F	D
7	D	F	G	H	B
8	G	H	D	B	F
9	H	B	F	G	D

- (a) 75, 14, 20, 57
 (b) 97, 32, 14, 56
 (c) 88, 41, 20, 57
 (d) 57, 32, 41, 87

38. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., 'A' can be represented by 55, 67 etc., and 'R' can be represented by 23, 30 etc. Similarly, identify the set for the word **DART**.

MATRIX-I

	0	1	2	3	4
0	F	O	M	S	R
1	S	R	F	O	M
2	O	M	S	R	F
3	R	F	O	M	S
4	M	S	R	F	O

MATRIX-II

	5	6	7	8	9
5	A	T	D	I	P
6	I	P	A	T	D
7	T	D	I	P	A
8	P	A	T	D	I
9	D	I	P	A	T

- (a) 76, 86, 03, 87
 (b) 57, 55, 04, 56
 (c) 95, 98, 42, 65
 (d) 69, 67, 11, 86

39. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the

alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., 'A' can be represented by 12, 23, etc, and 'K' can be represented by 55, 77, etc. Similarly, identify the set for the word **STRONG**.

MATRIX-I

	0	1	2	3	4
0	R	A	I	N	G
1	G	R	A	I	N
2	N	G	R	A	I
3	I	N	G	R	A
4	A	I	N	G	R

MATRIX-II

	5	6	7	8	9
5	K	S	T	O	C
6	C	K	S	T	O
7	O	C	K	S	T
8	T	O	C	K	S
9	S	T	O	C	K

- (a) 56, 58, 11, 14, 13, 10
 (b) 67, 79, 22, 86, 20, 21
 (c) 78, 85, 33, 97, 32, 43
 (d) 89, 95, 44, 75, 42, 32

40. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., 'A' can be represented by 04, 10, etc. and 'B' can be represented by 59, 65, etc. Identify the set for the word **MARBLE**.

MATRIX-I

	0	1	2	3	4
0	R	T	S	M	A
1	A	R	T	S	M
2	M	A	R	T	S
3	S	M	A	R	T
4	T	S	M	A	R

MATRIX-II

	5	6	7	8	9
5	E	G	L	O	B
6	B	E	G	L	O
7	O	B	E	G	L
8	L	O	B	E	G
9	G	L	O	B	E

- (a) 20, 21, 23, 65, 79, 87
 (b) 42, 43, 22, 87, 57, 66
 (c) 31, 10, 12, 58, 86, 55
 (d) 14, 32, 41, 98, 96, 88

41. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two

classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., F can be represented by 14, 21, etc and E can be represented by 20, 32, etc. Similarly, you have to identify the set for the word **'REST'**.

MATRIX -I **MATRIX -II**

	0	1	2	3	4
0	D	E	F	I	N
1	I	N	D	E	F
2	E	F	I	N	D
3	N	D	E	F	I
4	F	I	N	D	E

- (a) 57, 20, 96, 98
(b) 69, 01, 58, 68
(c) 95, 44, 96, 98
(d) 76, 01, 65, 59

42. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., C can be represented by 14, 21, etc., and K can be represented by 76, 88, etc. Similarly, you have to identify the set for the word **JADE**.

MATRIX -I **MATRIX -II**

	0	1	2	3	4
0	A	B	C	D	E
1	D	E	A	B	C
2	B	C	D	E	A
3	E	A	B	C	D
4	C	D	E	A	B

- (a) 87, 43, 33, 42
(b) 85, 43, 22, 30
(c) 75, 43, 10, 23
(d) 75, 42, 10, 23

43. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alterna-

tives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g. 'U' can be represented by 10, 42, etc. and 'R' can be represented by 55, 69, etc. Similarly, you have to identify the set for these word **'SLEEP'**.

MATRIX-I **MATRIX-II**

	0	1	2	3	4
0	P	U	L	S	E
1	U	L	S	E	P
2	L	S	E	P	U
3	S	E	P	U	L
4	E	P	U	L	S

- (a) 44, 11, 40, 31, 41
(b) 30, 20, 31, 40, 41
(c) 30, 34, 40, 22, 44
(d) 44, 43, 31, 22, 95

44. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., 'P' can be represented by 00, 14, etc and 'A' can be represented by 56, 79 etc. Similarly, you have to identify the set for the word **'ROSE'**.

MATRIX -I **MATRIX -II**

	0	1	2	3	4
0	P	U	L	S	E
1	U	L	S	E	P
2	L	S	E	P	U
3	S	E	P	U	L
4	E	P	U	L	S

- (a) 55, 95, 44, 42
(b) 96, 95, 44, 40
(c) 69, 86, 21, 43
(d) 87, 95, 44, 43

45. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of

numbers given in the alternatives are represented by two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., 'R' can be represented by 02, 21, etc, and 'B' can be represented by 57, 76, etc. Similarly, you have to identify the set for the word **'KJAT'**.

MATRIX -I **MATRIX -II**

	0	1	2	3	4
0	S	A	R	Y	K
1	Y	K	S	A	R
2	A	R	Y	K	S
3	K	S	A	R	Y
4	R	Y	K	S	A

- (a) 04, 79, 20, 87
(b) 11, 67, 23, 75
(c) 30, 86, 01, 67
(d) 23, 89, 20, 87

46. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g. 'D' can be represented by 03, 22, etc. and 'R' can be represented by 56, 68, etc. Similarly, you have to identify the set for the word **'CAST'**.

MATRIX -I **MATRIX -II**

	0	1	2	3	4
0	A	C	B	D	E
1	M	T	L	K	H
2	B	M	D	A	T
3	N	C	B	H	A
4	E	L	A	K	T

- (a) 31, 42, 31, 20
(b) 31, 00, 13, 20
(c) 31, 12, 24, 00
(d) 31, 00, 75, 44

47. A word is represented by only one set of numbers as given in any one of the alternatives. The

sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g. 'N' can be represented by 02, 24 etc. and 'Q' can be represented by 56, 78 etc. Similarly, you have to identify the set for the word **'SPORTS'**.

MATRIX -I					MATRIX -II				
0	1	2	3	4	5	6	7	8	9
0	L	M	N	O	K	5	P	Q	R
1	N	M	K	L	O	6	Q	P	S
2	L	K	M	O	N	7	T	R	P
3	N	O	K	M	L	8	R	P	S
4	O	M	K	L	N	9	Q	P	S

- (a) 67, 55, 31, 57, 69, 87
 (b) 58, 77, 20, 85, 79, 97
 (c) 24, 66, 40, 85, 89, 58
 (d) 87, 20, 23, 85, 75, 67

48. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in the matrix given below. The columns and rows of Matrix are numbered from 0 to 6. A letter from the matrix can be represented first by its row and next by its column, e.g., 'A' can be represented by 15, 43, etc. Similarly, you have to identify the set for the word **'CALM'**.

0	1	2	3	4	5	6
1	H	R	E	I	P	S
2	S	G	N	D	Z	I
3	B	U	F	T	K	L
4	V	A	P	C	Y	A
5	M	W	C	O	X	N
6	B	A	E	J	L	O

- (a) 53, 42, 65, 36
 (b) 53, 54, 51, 31
 (c) 44, 54, 65, 24
 (d) 44, 62, 65, 51

49. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the

alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., 'A' can be represented by 00, 12 etc. and 'P' can be represented by 56, 76 etc. Similarly, you have to identify the set for the word

'PARROT'.

MATRIX -I					MATRIX -II				
0	1	2	3	4	5	6	7	8	9
0	A	B	C	D	5	O	P	Q	R
1	E	C	A	B	6	P	O	T	Q
2	A	E	B	D	7	O	P	R	Q
3	B	A	D	C	8	P	O	Q	R
4	A	D	C	B	9	O	Q	P	R

- (a) 56, 00, 77, 88, 86, 99
 (b) 85, 20, 58, 77, 87, 79
 (c) 65, 30, 77, 98, 90, 99
 (d) 66, 40, 76, 77, 86, 99

50. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., 'B' can be represented by 01, 31 etc. and 'P' can be represented by 67, 75 etc. Similarly, you have to identify the set for the word **'CARD'**.

MATRIX -I					MATRIX -II				
0	1	2	3	4	5	6	7	8	9
0	A	B	C	D	5	P	Q	R	S
1	D	C	B	A	6	Q	S	P	R
2	B	A	D	C	7	P	T	R	S
3	D	B	C	A	8	Q	S	P	R
4	C	D	A	E	9	T	P	S	Q

- (a) 32, 00, 56, 10
 (b) 40, 21, 68, 44
 (c) 11, 33, 57, 22
 (d) 02, 42, 77, 20

51. A word is represented by only one set of numbers as given in any

one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., 'A' can be represented by 01, 13 etc., and 'S' can be represented by 55, 67 etc. Similarly, you have to identify the set for the letters given.

KPRS

MATRIX-I					MATRIX-II				
0	1	2	3	4	5	6	7	8	9
0	P	A	I	V	5	S	L	K	M
1	I	P	R	A	6	K	M	S	E
2	A	R	V	P	7	M	E	L	K
3	V	I	P	R	8	L	K	E	S
4	R	V	A	I	9	E	S	M	L

- (a) 65, 23, 14, 55
 (b) 86, 34, 42, 69
 (c) 78, 41, 23, 86
 (d) 57, 11, 33, 96

52. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix-I and numbered from 0 to 4 and that of Matrix-II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., 'A' can be represented by 00, 23, etc. and 'P' can be represented by 55, 69, etc. Similarly, you have to identify the set for the word given in the question.

BEAST

MATRIX-I					MATRIX-II				
0	1	2	3	4	5	6	7	8	9
0	A	B	C	D	5	P	Q	R	S
1	B	C	D	E	6	Q	R	S	T
2	C	D	E	A	7	R	S	T	P
3	D	E	A	B	8	S	T	P	Q
4	E	A	B	C	9	T	P	Q	R

- (a) 33, 42, 58, 55, 87
 (b) 31, 68, 32, 55, 95
 (c) 24, 22, 23, 58, 59
 (d) 42, 31, 10, 13, 77

53. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in the matrix given below. The columns and rows of matrix are numbered from 1 to 6. A letter from the matrix can be represented first by its row and next by its column e.g., 'A' can be represented by 42, 62 etc and 'P' can be represented by 15, 43, etc. Similarly, you have to identify the set for the word **'SNOW'**

0	1	2	3	4	5	6
1	H	R	E	I	P	S
2	S	G	N	D	Z	J
3	B	U	F	T	K	L
4	V	A	P	C	Y	A
5	M	W	C	O	X	N
6	B	A	E	I	L	O

- (a) 21, 41, 22, 56
(b) 21, 56, 62, 44
(c) 16, 56, 46, 35
(d) 21, 23, 54, 52
54. In the following question, a word is represented by a set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by alphabets as in the matrices given below. The columns and rows of matrix are numbered from 1 to 6. A letter from these matrices can be represented first by its row and next by its column number, e.g., 'A' can be represented by 42, 'S' can be represented by 21, etc. Similarly, you have to identify the set for the word **'PLAY'**.

0	1	2	3	4	5	6
1	H	R	E	I	P	S
2	S	G	N	D	Z	I
3	B	U	F	T	K	L
4	V	A	P	C	Y	A
5	H	W	C	O	X	N
6	B	A	E	I	L	Q

- (a) 43, 36, 42, 23
(b) 43, 32, 33, 33

- (c) 15, 12, 42, 45
(d) 43, 65, 62, 45
55. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternative are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g. 'D' can be represented by 02, 14, etc., and 'R' can be represented by 57, 76, etc. Similarly, you have to identify the set for the word **'BEST'**.

MATRIX-I

	0	1	2	3	4
0	B	C	D	E	F
1	E	F	B	C	D
2	C	D	E	F	B
3	F	B	C	D	E
4	D	E	F	B	C

MATRIX-II

	5	6	7	8	9
5	P	Q	R	S	T
6	S	T	P	Q	R
7	Q	R	S	T	P
8	T	P	Q	R	S
9	R	S	T	P	Q

- (a) 24, 22, 77, 96
(b) 24, 22, 76, 97
(c) 24, 21, 77, 97
(d) 24, 22, 77, 97
56. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in the two matrices given below. The columns and rows of matrix I are numbered from 0 to 4 and that of matrix II numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column e.g., 'C' can be represented by 00, 12, 23, etc. and 'M' can be represented by 56, 67, 77 etc. Similarly, you have to identify the set for the given word - **GOD**.

MATRIX-I

	0	1	2	3	4
0	C	D	E	F	G
1	G	D	C	F	E
2	E	F	G	C	D
3	G	C	F	D	E
4	D	E	F	G	E

MATRIX-II

	5	6	7	8	9
5	L	M	N	O	P
6	O	L	M	N	P
7	L	O	M	P	N
8	N	O	P	M	L
9	P	L	M	N	O

- (a) 10, 11, 65

- (b) 95, 79, 12
(c) 30, 65, 40
(d) 00, 10, 75
57. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of matrix I are numbered from 0 to 4 and that of matrix II numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column e.g., 'B' can be represented by 01. 10, 22, etc. and 'F' can be represented by 55, 76 86, etc. Similarly, you have to identify the set for the given word - **CAGE**.

MATRIX-I

	0	1	2	3	4
0	A	B	C	D	E
1	B	C	D	E	A
2	C	D	B	A	E
3	D	C	B	E	A
4	E	B	A	C	D

MATRIX-II

	5	6	7	8	9
5	F	G	H	I	J
6	G	F	I	J	H
7	I	F	G	J	H
8	H	F	G	I	J
9	J	F	G	J	I

- (a) 95, 82, 31, 14
(b) 20, 00, 65, 40
(c) 14, 20, 41, 86
(d) 00, 21, 41, 95
58. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of the alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 1 to 5 and that of Matrix II are numbered from 6 to 10. A letter from these matrices can be represented first by its row and next by its column, e.g., 'L' can be represented first by 14, 33, 42, etc. and 'M' can be represented by 66, 79, 98 etc. Similarly, you have to identify the set for the word given below:

PINK

MATRIX-I

	1	2	3	4
1	I	J	K	L
2	L	K	J	I
3	J	I	L	K
4	K	L	I	J
5	K	I	L	J

MATRIX-II

	6	7	8	9
6	M	N	O	P
7	P	O	N	M
8	N	M	P	O
9	O	P	M	N
10	P	M	O	N

- (a) 99, 11, 69, 22
 (b) 69, 99, 11, 34
 (c) 69, 11, 99, 41
 (d) 69, 78, 51, 43

59. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix-I are numbered from 0 to 4 and that of Matrix-II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., 'H' can be represented by 02, 20, 43 etc., and 'V' can be represented by 58, 79, 95 etc. Similarly, you have to identify the set for the word given below: **SOFT**

MATRIX-I

MATRIX-II

	0	1	2	3	4
0	F	G	H	O	M
1	O	M	F	G	H
2	H	O	M	F	G
3	G	H	O	M	F
4	M	F	G	H	O

- (a) 55, 03, 22, 77
 (b) 89, 32, 12, 97
 (c) 68, 11, 12, 97
 (d) 89, 03, 12, 98

60. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in the two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., 'E' can be represented by 00, 13, 32, etc., and 'S' can be represented by 55, 76, 87, etc. Similarly you have to identify the set for the word given below: **CART**

MATRIX-I

MATRIX-II

	0	1	2	3	4
0	E	A	R	W	P
1	W	P	A	E	R
2	A	W	P	R	E
3	P	R	E	A	W
4	R	E	W	P	A

- (a) 65, 33, 40, 86
 (b) 66, 12, 40, 58
 (c) 88, 44, 31, 89
 (d) 59, 20, 32, 89

61. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., 'N' can be represented by 43, 34 etc., and 'R' can be represented by 97, 68, etc. Similarly, you have to identify the set for the word given **'POLO'**.

MATRIX-I

MATRIX-II

	0	1	2	3	4
4	K	L	M	N	O
3	L	M	K	O	N
2	N	O	L	M	K
1	M	N	O	K	L
0	O	K	N	L	M

- (a) 79, 12, 16, 36
 (b) 95, 00, 22, 44
 (c) 88, 33, 26, 48
 (d) 66, 21, 24, 25

62. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., 'M' can be represented by 42, 31, etc. and 'P' can be represented by 95, 88 etc. Similarly, you have to identify the set for the word given **'ROST'**.

MATRIX-I

MATRIX-II

	0	1	2	3	4
4	K	L	M	N	O
3	L	M	K	O	N
2	N	O	L	M	K
1	M	N	O	K	L
0	O	K	N	L	M

- (a) 56, 44, 67, 40
 (b) 97, 21, 66, 29
 (c) 75, 00, 10, 92
 (d) 68, 33, 65, 58

63. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, eg, 'A' can be represented by 40, 01, 13, 32 'etc., and 'N' can be represented by 56, 68, 89 etc. Similarly, you have to identify the set for the word given follow.

NAD-GDSA

MATRIX-I

MATRIX-II

	0	1	2	3	4
0	X	T	R	M	G
1	M	G	X	T	R
2	T	R	M	G	X
3	G	X	T	R	M
4	R	M	G	X	T

- (a) 86, 87, 99 - 40, 41, 86, 64
 (b) 98, 96, 85 - 42, 78, 88, 77
 (c) 77, 69, 76 - 22, 95, 28, 31
 (d) 65, 55, 67 - 05, 25, 91, 40

64. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g. 'T' can be represented by 31, 76 etc., and 'T' can be represented by 12, 79 etc., Similarly, you have to identify the set for the word given **LOVE**.

MATRIX-I

MATRIX-II

	0	1	2	3	4
0	G	V	E	A	C
1	R	O	N	G	L
2	M	N	E	L	I
3	O	T	I	T	A
4	N	L	N	E	P

- (a) 23, 12, 67, 68
 (b) 69, 78, 76, 86
 (c) 99, 98, 67, 68
 (d) 14, 30, 67, 68

65. A word is represented by only one set of number as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g. 'K' can be represented by 00, 24, 32 etc. and L can be represented by 57, 68, 89 etc. Similarly, you have to identify the set for the given word : **MUTE**

MATRIX-I MATRIX-II

	0	1	2	3	4
0	K	N	T	U	S
1	S	K	U	T	N
2	T	U	N	S	K
3	U	S	K	N	T
4	N	T	S	K	U

- (a) 66, 30, 02, 68
 (b) 88, 21, 03, 76
 (c) 66, 03, 20, 95
 (d) 99, 20, 13, 95

66. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and 2 to 6 respectively and that of Matrix -II are numbered from 2 to 6 and 7 to 0 respectively. A letter from these matrices can be represented first by its row and next by its column. e.g. 'H' can be represented by 04, 25, 32 etc., and 'N' can be represented by 21, 40 59 etc. Similarly, you have to identify the set for the word given below: **YEAR**

MATRIX-I MATRIX-II

	2	3	4	5	6
0	Y	A	H	M	J
1	M	J	H	A	Y
2	A	Y	J	H	M
3	H	J	Y	M	A
4	J	M	A	Y	H

- (a) 23 , 57, 15, 60
 (b) 16 , 38, 15, 30
 (c) 34 , 31, 32, 28
 (d) 45 , 50, 36, 29

67. A word is represented by only one set of numbers as given any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 5 and that of Matrix II are numbered from 6 to 10. A letter from these matrices can be represented first its row and next by its column, e.g. 'D' can be represented 11, 25, etc., and 'J' can be represented by 67, 78, etc. Similarly, you have to identify the set for the given word. **'MILK'**

Matrix - I Matrix -II

0	1	2	3	4	5
1	D	E	F	G	H
2	H	G	E	F	D
3	G	F	E	D	H
4	F	E	D	H	G
5	E	D	H	F	G

- (a) 98, 66, 79, 77
 (b) 98, 79, 77, 86
 (c) 98, 86, 77, 99
 (d) 86, 77, 99, 98

68. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g. 'A' can be represented by 03, 34, 86 etc. and 'N' can be represented by 12, 65, 79 etc. Similarly, you have to identify the set for the given word: **REST**

MATRIX-I MATRIX-II

	0	1	2	3	4
0	G	V	E	A	C
1	R	O	N	G	S
2	M	N	E	S	I
3	O	T	I	T	A
4	N	S	N	E	P

- (a) 55, 43, 23, 69
 (b) 98, 56, 31, 77
 (c) 10, 02, 69, 88
 (d) 12, 04, 90, 78

69. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix -II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column e.g., 'P' can be represented by 12, 24 etc., and 'O' can be represented by 57, 68 etc. Similarly you have to identify the set for the word given in the question.

WARD

MATRIX-I MATRIX-II

	0	1	2	3	4
0	P	K	E	A	A
1	A	S	P	K	E
2	K	E	A	S	P
3	S	P	K	E	A
4	E	A	S	P	K

- (a) 58, 10, 67, 75
 (b) 77, 22, 67, 88
 (c) 96, 42, 79, 87
 (d) 89, 34, 86, 96

70. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., 'I' can be represented by 13, 21, etc. and 'B' can be represented by 57, 65, etc. Similarly, you have to identify the set for the word given in question.

'FADE'

MATRIX-I

	0	1	2	3	4
0	I	E	A	O	U
1	A	O	U	I	E
2	E	I	O	U	A
3	O	U	E	A	I
4	U	A	I	E	O

MATRIX-II

	5	6	7	8	9
5	F	D	B	G	H
6	B	G	H	F	D
7	D	F	G	H	B
8	G	H	D	B	F
9	H	B	F	G	D

(a) 76, 02, 75, 32

(b) 68, 20, 57, 14

(c) 55, 33, 65, 23

(d) 89, 10, 96, 41

71. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix-I are numbered from 0 to 4 and that of Matrix-II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., A can be represented by 01, 20, 42 etc, and H can be represented by 65, 57, 98 etc. Similarly, you have to identify the set for the word given in the question.

FAITH**MATRIX-I**

	0	1	2	3	4
0	F	A	N	O	I
1	I	O	F	A	N
2	A	N	O	I	F
3	O	F	I	N	A
4	N	I	A	F	O

MATRIX-II

	5	6	7	8	9
5	S	E	H	B	T
6	H	S	E	T	B
7	B	T	S	E	H
8	E	H	T	B	S
9	T	S	E	H	B

(a) 24, 31, 10, 59, 57

(b) 12, 20, 40, 68, 65

(c) 31, 34, 23, 76, 79

(d) 43, 42, 41, 78, 89

72. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in the two matrices given below. The columns and rows of Matrix I are numbered from 1 to 5 and that of Matrix II are numbered from 6 to 10. A letter from these matrices can be represented first by its row and next by its column, e.g., 'A' can be represented by 11, 23,

etc, and 'G' can be represented by 67, 78 etc. Similarly, you have to identify the set for the word given below: **BEE**

MATRIX-I

	1	2	3	4	5
1	A	B	C	D	E
2	E	D	A	B	C
3	B	C	D	E	A
4	D	A	E	C	D
5	C	E	B	A	B

MATRIX-II

	6	7	8	9	10
6	F	G	H	I	J
7	J	I	G	H	F
8	F	H	I	J	G
9	G	J	F	G	I
10	H	E	J	F	E

(a) 12,15,41 (b) 12,21,15

(c) 52,20,33 (d) 21,12,22

73. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column e.g., 'A' can be represented by 00, 11, 20 etc. and 'P' can be represented by 59, 68, 75 etc. Similarly, you have to identify the set for the word given below: **'LOAD'**

MATRIX-I

	0	1	2	3	4
0	A	B	C	D	E
1	B	A	E	D	C
2	A	C	D	B	E
3	E	A	D	C	B
4	C	E	A	D	B

MATRIX-II

	5	6	7	8	9
5	L	M	N	O	P
6	M	L	N	P	O
7	P	L	M	N	O
8	P	O	M	N	L
9	O	M	P	L	N

(a) 55, 42, 86, 03

(b) 66, 40, 31, 13

(c) 89, 86, 11, 99

(d) 76, 95, 20, 32

74. A Word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g. 'F' can be represented by 30, 22, etc. and 'N' can be represented by 97, 89, etc. Similarly, you have to identify the set for the given

word. **"DAKU"****MATRIX-I**

	0	1	2	3	4
4	A	F	K	P	U
3	F	K	A	U	P
2	P	U	F	K	A
1	K	P	U	A	F
0	U	A	P	F	K

MATRIX-II

	5	6	7	8	9
9	D	I	N	O	X
8	X	S	I	P	N
7	N	X	S	N	D
6	S	D	X	N	I
5	I	N	D	X	S

(a) 95, 40, 04, 42

(b) 24, 95, 20, 27

(c) 88, 24, 10, 34

(d) 57, 13, 23, 21

75. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in the two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column. e.g. 'A' can be represented by 00, 21, etc. and 'S' can be represented by 58, 98, etc. Similarly, you have to identify the set for the word given below: **"SLOW"**

MATRIX-I

	0	1	2	3	4
0	A	E	K	G	L
1	H	B	I	J	K
2	M	A	C	B	C
3	D	E	F	D	L
4	H	I	J	K	E

MATRIX-II

	5	6	7	8	9
5	N	S	R	S	T
6	Q	O	T	U	X
7	W	X	P	U	V
8	Y	Z	Y	Q	X
9	Z	W	R	S	R

(a) 58, 34, 66, 95

(b) 98, 04, 66, 96

(c) 58, 34, 66, 76

(d) 98, 04, 66, 95

76. A words is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in the matrix given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II from 0, 5 to 8. A letter from

the matrix can be represented first by its row and next by its column e.g., 'D' can be represented by 03, 10 etc. and 'J' can be represented by 56, 65, etc. Similarly, you have to identify the set for the word '**BLACK**'.

MATRIX-I **MATRIX-II**

	0	1	2	3	4
0	A	B	C	D	E
1	D	B	A	E	C
2	C	A	D	B	E
3	B	D	E	C	A
4	E	B	C	A	D

- (a) 11, 66, 57, 20, 76
 (b) 20, 76, 12, 57, 66
 (c) 66, 12, 20, 11, 57
 (d) 11, 66, 12, 20, 57

Directions (77-78): In each of the following questions, a word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g. 'E' can be represented by 01, 13, etc. and 'L' can be represented by 56, 77 etc. Similarly, you have to identify the set for the word given in each question.

77. **AIRS**

MATRIX-I **MATRIX-II**

	0	1	2	3	4
0	A	E	M	N	P
1	N	P	A	E	M
2	E	M	N	P	A
3	P	A	E	M	N
4	M	N	P	A	E

- (a) 00, 68, 78, 88
 (b) 24, 69, 56, 78
 (c) 43, 55, 86, 95
 (d) 12, 76, 99, 78

78. **LANE**

MATRIX-I **MATRIX-II**

	0	1	2	3	4
0	Z	X	S	R	C
1	J	L	D	B	G
2	M	B	C	M	H
3	R	L	N	S	I
4	B	D	M	R	J

- (a) 11, 66, 33, 96
 (b) 11, 67, 32, 97
 (c) 31, 87, 32, 88
 (d) 31, 66, 33, 97

Directions (79-80): In the following two questions, given below are the two matrices each containing two classes of letters from the alphabets. The columns and rows of Matrix I are prime numbered and that of Matrix II are composite numbered. Letter from these matrices can be represented first by its row number and next by its column number. e.g. P can be written as 48, 66, 84 etc. In the following questions identify one set of number pairs out of (1), (2), (3) and (4) which represent the given word.

MATRIX-I **MATRIX-II**

	2	3	5	7
2	T	R	O	M
3	R	O	M	T
5	M	T	R	O
7	O	M	T	R

79. **ROME**

- (a) 57, 55, 52, 88
 (b) 23, 25, 27, 49
 (c) 64, 35, 33, 32
 (d) 96, 73, 77, 72

80. **APES**

- (a) 46, 48, 49, 44
 (b) 96, 94, 98, 99
 (c) 69, 64, 66, 68
 (d) 84, 86, 89, 88

81. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., 'A' can be represented by 01, 14, etc., and 'O' can be represented by 59, 67 etc. Similarly, you have to identify the set for the word '**PEARL**'

MATRIX-I **MATRIX-II**

	0	1	2	3	4
0	P	A	G	R	Z
1	G	R	Z	P	A
2	Z	P	A	G	R
3	A	G	R	Z	P
4	R	Z	P	A	G

- (a) 00, 55, 22, 11, 96
 (b) 00, 66, 14, 32, 56
 (c) 13, 77, 30, 14, 88
 (d) 12, 88, 43, 32, 89

82. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of matrix I are numbered from 0 to 4 and that of matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g. 'A' can be represented by 01, 14 etc. and 'E' can be represented by 55, 66 etc. Similarly, you have to identify the set for the word '**ORGAN**'

MATRIX-I **MATRIX-II**

	0	1	2	3	4
0	P	A	G	R	Z
1	G	R	Z	P	A
2	Z	P	A	G	R
3	A	G	R	Z	P
4	R	Z	P	A	G

- (a) 75, 03, 11, 22, 76
 (b) 86, 40, 23, 14, 96
 (c) 98, 03, 44, 22, 58
 (d) 67, 22, 31, 58, 22

83. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its columns, e.g. 'A' can be represented by 01, 14 etc. and 'M' can be represented by 56, 68 etc. Similarly, you have to identify the set for the word '**EAGLE**'

MATRIX-I **MATRIX-II**

	0	1	2	3	4
0	P	A	G	R	Z
1	G	R	Z	P	A
2	Z	P	A	G	R
3	A	G	R	Z	P
4	R	Z	P	A	G

- (a) 99, 01, 44, 96, 77
 (b) 66, 43, 44, 79, 88
 (c) 55, 14, 11, 78, 66
 (d) 88, 22, 31, 89, 76

84. A word is represented by only one set of numbers given in any one of the alternatives. The sets of the numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g. 'A' can be represented by 03, 10 etc. and 'D' can be represented by 58, 65 etc. Similarly, you have to identify the set for the word **'BEAK'**

MATRIX-I MATRIX-II

	0	1	2	3	4		5	6	7	8	9
0	C	B	O	A	T	5	R	E	K	D	L
1	A	C	T	B	O	6	D	L	R	E	K
2	B	O	A	T	C	7	E	K	D	L	R
3	T	C	B	O	A	8	L	R	E	K	D
4	O	A	T	C	B	9	K	D	L	R	E

- (a) 44, 75, 22, 88
 (b) 44, 88, 10, 75
 (c) 20, 10, 87, 57
 (d) 32, 76, 75, 22

85. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g. 'A' can be represented by 01, 14 etc. and 'T' can be represented by 55, 68 etc. Similarly, you have to identify the set for the word **'PERSON'**

MATRIX-I MATRIX-II

	0	1	2	3	4		5	6	7	8	9
0	R	A	S	E	N	5	T	O	P	I	C
1	N	E	S	R	A	6	C	P	O	T	I
2	E	A	R	N	S	7	P	O	T	I	C
3	A	S	N	R	E	8	T	O	P	I	C
4	E	A	R	N	S	9	I	P	O	T	C

- (a) 66, 03, 10, 33, 56, 03
 (b) 96, 12, 32, 40, 77, 34
 (c) 75, 20, 43, 04, 98, 42
 (d) 87, 11, 22, 24, 67, 04

86. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of matrix I are numbered from 0 to 4 and that of matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., 'D' can be represented by 00, 12, etc. and 'P' can be represented by 56, 68 etc. Similarly, you have to identify the set for the word **'FIRE'**.

MATRIX-I MATRIX-II

	0	1	2	3	4		5	6	7	8	9
0	D	E	F	I	N	5	O	P	R	S	T
1	I	N	D	E	F	6	S	T	O	P	R
2	E	F	I	N	D	7	P	R	S	T	O
3	N	D	E	F	I	8	T	O	P	R	S
4	F	I	N	D	E	9	R	S	T	O	P

- (a) 02, 03, 57, 01
 (b) 33, 34, 76, 22
 (c) 21, 22, 88, 33
 (d) 14, 10, 69, 14

87. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two Matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented by 03, 12 etc., and 'M' can be represented by 55, 67 etc. Similarly, you have to identify the set for the word **'RUDE'**

MATRIX-I MATRIX-II

	0	1	2	3	4		5	6	7	8	9
0	B	D	E	T	O	5	M	U	I	L	R
1	D	E	T	O	B	6	U	L	M	R	I
2	E	B	O	D	T	7	I	M	R	U	L
3	T	O	B	E	D	8	L	R	U	I	M
4	O	T	D	B	E	9	R	I	L	M	U

- (a) 59, 99, 34, 11

- (b) 77, 56, 02, 01
 (c) 95, 87, 42, 12
 (d) 56, 65, 10, 33

88. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., 'M' can be represented by 01, 10 etc. and 'A' can be represented by 56, 65 etc. Similarly, you have to identify the set for the word **'ROD'**.

MATRIX-I MATRIX-II

	0	1	2	3	4		5	6	7	8	9
0	I	M	W	S	Q	5	O	A	D	R	N
1	M	W	S	Q	I	6	A	D	R	N	O
2	W	S	Q	I	M	7	D	R	N	O	A
3	S	Q	I	M	W	8	R	N	O	A	D
4	Q	I	M	W	S	9	N	O	A	D	R

- (a) 58, 66, 78 (b) 67, 96, 57
 (c) 56, 66, 86 (d) 58, 69, 65

89. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix-I are numbered from 0 to 4 and that of Matrix-II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., 'M' can be represented by 01, 10 etc., and 'R' can be represented by 58, 85 etc. Similarly, you have to identify the set for the word **'NOW'**.

MATRIX-I MATRIX-II

	0	1	2	3	4		5	6	7	8	9
0	I	M	W	S	Q	5	O	A	D	R	N
1	M	W	S	Q	I	6	A	D	R	N	O
2	W	S	Q	I	M	7	D	R	N	O	A
3	S	Q	I	M	W	8	R	N	O	A	D
4	Q	I	M	W	S	9	N	O	A	D	R

- (a) 95, 67, 02 (b) 86, 58, 11
 (c) 55, 78, 11 (d) 95, 55, 34

90. A word is represented by only one set of numbers as given in any

one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., 'A' can be represented by 03, 12 etc., and 'N' can be represented by 56, 65 etc. Similarly, you have to identify the set for the word **'DRAW'**.

MATRIX-I MATRIX-II

	0	1	2	3	4
0	D	O	B	A	I
1	O	B	A	I	D
2	B	A	I	D	O
3	A	I	D	O	B
4	I	D	O	B	A

- (a) 14, 89, 12, 78
 (b) 41, 66, 23, 55
 (c) 32, 75, 44, 76
 (d) 23, 57, 30, 68

91. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., 'I' can be represented first by its row and next by its column, e.g., 'T' can be represented by 00, 14 etc., and 'N' can be represented by 59, 68 etc. Similarly, you have to identify the set for the word **'ROAD'**.

MATRIX-I MATRIX-II

	0	1	2	3	4
0	I	M	W	S	Q
1	M	W	S	Q	I
2	W	S	Q	I	M
3	S	Q	I	M	W
4	Q	I	M	W	S

- (a) 67, 96, 56, 57
 (b) 56, 67, 57, 96

- (c) 67, 57, 96, 56
 (d) 96, 67, 56, 57

92. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., 'B' can be represented by 00, 23 etc., and 'P' can be represented by 56, 65 etc. Similarly, you have to identify the set for the word **'DEBRIS'**.

MATRIX-I MATRIX-II

	0	1	2	3	4
0	B	U	I	L	D
1	U	I	L	D	B
2	I	L	D	B	U
3	L	D	B	U	I
4	D	B	U	I	L

- (a) 40, 95, 14, 59, 30, 69
 (b) 22, 59, 42, 59, 34, 69
 (c) 40, 95, 14, 58, 34, 69
 (d) 22, 95, 59, 30, 14, 69

93. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., 'A' can be represented by 03, 14 etc. and 'U' can be represented by 56, 65 etc. Similarly, you have to identify the set for the word **'BRIDE'**.

MATRIX-I MATRIX-II

	0	1	2	3	4
0	E	S	P	A	R
1	R	E	S	P	A
2	A	R	E	S	P
3	P	A	R	E	S
4	S	P	A	R	E

- (a) 55, 57, 21, 22, 86
 (b) 96, 03, 75, 85, 22
 (c) 96, 03, 75, 67, 22

- (d) 55, 21, 57, 86, 22

94. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., 'A' can be represented by 02, 11 etc., and 'L' can be represented by 56, 67 etc. Similarly, you have to identify the set for the word **'BEARD'**.

MATRIX-I MATRIX-II

	0	1	2	3	4
0	S	P	A	R	E
1	P	A	R	E	S
2	A	R	E	S	P
3	R	E	S	P	A
4	E	S	P	A	R

- (a) 88, 13, 43, 44, 21
 (b) 88, 87, 43, 21, 13
 (c) 87, 13, 43, 21, 88
 (d) 87, 13, 43, 88, 21

95. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 3 and that of Matrix II are numbered from 4 to 7. A letter from these matrices can be represented first by its row and next by its column, e.g., 'D' can be represented by 01 and 'R' can be represented by 44. Similarly, you have to identify the set for the word **'TALE'**.

MATRIX-I MATRIX-II

	0	1	2	3
0	A	D	G	H
1	P	S	V	Z
2	C	F	I	M
3	T	L	E	Q

- (a) 64, 00, 31, 32
 (b) 46, 13, 00, 23
 (c) 00, 31, 64, 32
 (d) 30, 76, 23, 32

(Exercise-I)

(Exercise-II)

(Exercise-III)

(Exercise-IV)

(Exercise-V)

SOLUTION

6. (d)

O	P	E	R	A	T	I	O	N
-1↓	-1↓	-1↓	-1↓	-1↓	-1↓	-1↓	-1↓	-1↓
N	O	D	Q	Z	S	H	N	M

I	N	V	I	S	I	B	L	E
-1↓	-1↓	-1↓	-1↓	-1↓	-1↓	-1↓	-1↓	-1↓
H	M	U	H	R	H	A	K	D

7. (b)
$$\begin{array}{ccccccccc} & F & A & V & O & U & R & & \\ & -1 & +1 & -1 & +1 & -1 & +1 & & \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & & \\ & E & B & U & P & T & S & & \\ & & & & & & & & \\ & D & A & N & G & E & R & & \\ & -1 & +1 & -1 & +1 & -1 & +1 & & \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & & \\ & C & B & M & H & D & S & & \end{array}$$
8. (b)
$$\begin{array}{ccccccccc} & S & U & M & M & E & R & & \\ & -1 & 0 & +1 & +1 & 0 & 0 & & \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & & \\ & R & U & N & N & E & R & & \\ & & & & & & & & \\ & W & I & N & T & E & R & & \\ & -1 & 0 & +1 & +1 & 0 & 0 & & \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & & \\ & V & I & O & U & E & R & & \end{array}$$
9. (a)
$$\begin{array}{ccccccccccccccc} & P & R & O & D & U & C & T & I & O & N & S & & & \\ & +1 & -1 & +1 & -1 & +1 & +2 & +1 & -1 & +1 & -1 & +1 & & & \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & & & \\ & Q & Q & P & C & V & E & U & H & P & M & T & & & \\ & & & & & & & & & & & & & \\ & O & R & I & E & N & T & A & T & I & O & N & & & \\ & +1 & -1 & +1 & -1 & +1 & +2 & +1 & -1 & +1 & -1 & +1 & & & \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & & & \\ & P & Q & J & D & O & V & B & S & J & N & O & & & \end{array}$$
10. (a)
$$\begin{array}{ccccccc} & M & I & N & D & & \\ & -2 & -2 & -2 & -2 & & \\ & \downarrow & \downarrow & \downarrow & \downarrow & & \\ & K & G & L & B & & \\ & & & & & & \\ & A & R & G & U & E & \\ & -2 & -2 & -2 & -2 & -2 & \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \\ & Y & P & E & S & C & \\ & & & & & & \\ & D & I & A & G & R & A & M & \\ & -2 & -2 & -2 & -2 & -2 & -2 & -2 & \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \\ & B & G & Y & E & P & Y & K & \end{array}$$
11. (b)
$$\begin{array}{ccccccc} & B & A & S & I & C & \\ & +2 & +3 & +2 & +3 & +2 & \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \\ & D & D & U & L & E & \\ & & & & & & \\ & L & E & A & D & E & R & \\ & +2 & +3 & +2 & +3 & +2 & +3 & \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \\ & N & H & C & G & G & U & \end{array}$$
12. (d)
$$\begin{array}{ccccccc} & S & I & G & H & T & \\ & +13 & +13 & +13 & +13 & +13 & \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \\ & F & V & T & U & G & \\ & & & & & & \\ & R & E & V & E & A & L & \\ & +13 & +13 & +13 & +13 & +13 & +13 & \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \\ & E & R & I & R & N & Y & \end{array}$$
13. (c)
$$\begin{array}{ccccccc} & M & I & R & A & C & L & E & \\ & +1 & +2 & +3 & +4 & +5 & +6 & +7 & \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \\ & N & K & U & E & H & R & L & \\ & & & & & & & & \\ & G & A & M & B & L & E & & \\ & +1 & +2 & +3 & +4 & +5 & +6 & & \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & & \\ & H & C & P & F & Q & K & & \end{array}$$

14. (c)
$$\begin{array}{ccccccccccc} & G & L & A & M & O & U & R & & & \\ & +2 & -2 & +2 & +1 & -2 & +2 & -2 & & & \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & & & \\ & I & J & C & N & M & W & P & & & \\ & & & & & & & & & & \\ & M & I & S & R & U & L & E & & & \\ & +2 & -2 & +2 & +1 & -2 & +2 & -2 & & & \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & & & \\ & O & G & U & S & S & N & C & & & \\ & & & & & & & & & & \\ & T & O & P & I & C & A & L & & & \\ & +2 & -2 & +2 & +1 & -2 & +2 & -2 & & & \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & & & \\ & V & M & R & J & A & C & J & & & \end{array}$$
15. (c)
$$\begin{array}{ccccccc} & B & E & L & I & E & F & \\ & -1 & +1 & -1 & +2 & -1 & +3 & \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \\ & A & F & K & K & D & I & \\ & & & & & & & \\ & S & E & L & D & O & M & \\ & -1 & +1 & -1 & +2 & -1 & +3 & \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \\ & R & F & K & F & N & P & \end{array}$$
16. (b)
$$\begin{array}{ccccccc} & P & O & P & U & L & A & R & \\ & +1 & +1 & +1 & +1 & +1 & +1 & +1 & \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \\ & Q & P & Q & V & M & B & S & \\ & & & & & & & & \\ & F & A & M & O & U & S & & \\ & +1 & +1 & +1 & +1 & +1 & +1 & & \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & & \\ & G & B & N & P & V & T & & \end{array}$$
17. (d)
$$\begin{array}{ccccccc} & U & T & E & N & S & I & L & \\ & +2 & +2 & +2 & +2 & +2 & +2 & +2 & \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \\ & W & V & G & P & U & K & N & \\ & & & & & & & & \\ & B & K & Q & D & V & E & & \\ & +2 & +2 & +2 & +2 & +2 & +2 & & \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & & \\ & D & M & S & F & X & G & & \end{array}$$
18. (b)
$$\begin{array}{ccccccc} & R & O & B & U & S & T & \\ & -1 & -1 & -1 & -1 & -1 & -1 & \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \\ & Q & N & A & T & R & S & \\ & & & & & & & \\ & A & Y & D & N & Q & & \\ & -1 & -1 & -1 & -1 & -1 & & \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & & \\ & Z & X & C & M & P & & \end{array}$$
19. (d)
$$\begin{array}{ccccccc} & E & H & F & N & R & Q & \\ & -3 & -3 & -3 & -3 & -3 & -3 & \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \\ & B & E & C & K & O & N & \\ & & & & & & & \\ & Q & D & F & W & X & U & L & Q & \\ & -3 & -3 & -3 & -3 & -3 & -3 & -3 & \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \\ & N & A & C & T & U & R & I & N & \end{array}$$
20. (c)
$$\begin{array}{cccccccccccccccc} R & E & F & R & I & G & E & R & A & T & O & R & & & & \\ 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 & 10 & 11 & 12 & & & & \\ 12 & 11 & 10 & 9 & 8 & 7 & 6 & 5 & 4 & 3 & 2 & 1 & & & & \\ R & O & T & A & R & E & G & I & R & F & E & R & & & & \\ N & O & I & T & I & N & U & M & M & A & & & & & & \\ 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 & 10 & & & & & & \\ 10 & 9 & 8 & 7 & 6 & 5 & 4 & 3 & 2 & 1 & & & & & & \\ A & M & M & U & N & I & T & I & O & N & & & & & & \end{array}$$

21. (b)
$$\begin{array}{ccccccc} & G & R & A & S & P & \\ & -5 & -5 & -5 & -5 & -5 & \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \\ & B & M & V & N & K & \\ & & & & & & \\ & C & R & A & N & E & \\ & -5 & -5 & -5 & -5 & -5 & \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \\ & X & M & V & I & Z & \end{array}$$
22. (d)
$$\begin{array}{ccccccc} & C & O & V & E & T & \\ & +3 & +3 & +3 & +3 & +3 & \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \\ & F & R & Y & H & W & \\ & & & & & & \\ & P & E & A & R & L & \\ & +3 & +3 & +3 & +3 & +3 & \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \\ & S & H & D & U & O & \end{array}$$
23. (a)
$$\begin{array}{cccccccc} & T & R & I & A & N & G & L & E & \\ & -1 & -1 & -1 & -1 & -1 & -1 & -1 & -1 & \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \\ & S & Q & H & Z & M & F & K & D & \\ & & & & & & & & & \\ & E & X & A & M & P & L & E & & \\ & -1 & -1 & -1 & -1 & -1 & -1 & -1 & & \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & & \\ & D & W & Z & L & O & K & D & & \end{array}$$
24. (c)
$$\begin{array}{ccccccc} & S & W & I & T & C & H & \\ & +1 & -1 & +1 & -1 & +1 & -1 & \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \\ & T & V & J & S & D & G & \\ & & & & & & & \\ & B & R & E & A & D & & \\ & +1 & -1 & +1 & -1 & +1 & & \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & & \\ & C & Q & F & Z & E & & \end{array}$$
25. (d)
$$\begin{array}{cccc} \frac{DE}{1} & \frac{CE}{2} & \frac{MB}{3} & \frac{ER}{4} \\ \frac{4}{ER} & \frac{3}{MB} & \frac{2}{CE} & \frac{1}{DE} \\ \frac{NO}{1} & \frac{VE}{2} & \frac{MB}{3} & \frac{ER}{4} \\ \frac{4}{ER} & \frac{3}{MB} & \frac{2}{VE} & \frac{1}{NO} \end{array}$$
- TYPE - II**
- (c) The colour of the human blood is 'red' and as given, 'red' is called 'yellow'. So, the colour of human blood is 'yellow'.
 - (d) 'Chillies' are green colour and as given, 'chillies' are 'bananas'. So, 'bananas' are green in colour.
 - (c) A person will sit on a 'chair' but a 'chair' is called 'roof'. So, a person will sit on the 'roof'.
 - (a) Cricket is played with a 'bat' and 'bat' is called 'racket'. So, cricket is played with a 'racket'.

5. (c) Birds fly in the 'sky' and as given, 'sky' is 'star'. So, birds fly in the 'star'.
6. (a) A man sleeps on a 'bed' and as given, 'bed' is called 'window'. So, a man will sleep on the 'window'.
7. (a) Clearly, a 'bag' is used to carry the books but a 'bag' is called 'dictionary'. So, a 'dictionary' will be used to carry the books.
8. (b) 'Mat' will be spread on the floor. But 'mat' is called 'bedsheet'. So, a 'bedsheet' will be spread on the floor.
9. (d) Clearly, 'soap' is used for washing the clothes. But, 'soap' is called 'ink'. So, 'ink' is used for washing the clothes.
10. (b) A woman shall draw water from a 'well' but a 'well' is called 'island'. So, the woman will draw water from an 'island'.
11. (c) Clearly, a 'cassette' is played in the tape-recorder. But, a 'cassette' is called 'table'. So, a 'table' will be played in the tape-recorder.
12. (d) The colour of clear sky is 'blue'. But, as given, 'Blue' means 'White'. So, the aeroplanes fly in the clear sky whose colour is white
13. (b) aeroplanes fly in the sea
14. (c) A fruit grows on a 'tree' and 'tree' is called 'sky'. So, a fruit grows on the 'sky'.
15. (c) Fishes live in 'water' and as given, 'water' is called 'colour'. So, fishes live in 'colour'.
16. (d) A 'tractor' is used to plough a field. But a 'tractor' is called 'car'. So, a 'car' will be used to plough the field.
17. (c) Clearly, a 'nib' is fitted in the pen to write with it. But 'nib' is called 'needle'. So, a 'needle' will be fitted in the pen.
18. (b) We sleep in the 'night'. But 'night' is called 'sunshine'. So, we sleep in the 'sunshine'.
19. (d) The king of flowers is the

'lotus'. But 'lotus' is called 'gladiola'. So, 'gladiola' is the king of flowers.

20. (c) Clearly, 'dog' is reared as pet. But 'dog' is called 'mongoose'. So, 'mongoose' is reared as pet.
21. (d) The colour of milk is 'white'. But, as given, 'green' means 'white'. So, the colour of milk is 'green'
22. (c) The furniture is made up of 'wood' and as given, 'wood' is called 'straw'. So, the furniture is made up of 'straw'.
23. (d) A 'butler' serves in a restaurant but 'butler' is called 'rogue'. So, a 'rogue' will serve in the restaurant.
24. (d) Clearly, an illiterate man puts his 'thumb' to mark his signatures. But, as given, 'thumb' is called 'ankle' to mark his signature.
25. (d) A person will stand on the 'floor' and 'floor' is called 'roof'. So, a person will stand on the 'roof'.
26. (d) A child will write with a 'pencil' and 'pencil' is called 'sharpener'. So, a child will write with a 'sharpener'.
27. (c) The lady shall bake in an 'oven' but 'oven' is called 'grinder'. So, the lady will bake in a 'grinder'.
28. (a) One drinks 'water' when one is thirsty. Since 'water' is called 'light' on the other planet, so one would drink 'light' when one is thirsty there.

TYPE -III

1. (d) Vowel A, E, I, O, U is coded as 1, 2, 3, 4, 5 respectively each of the consonant in the word is moved 1 step forward
So code for ACID P 1D3E
2. (d) A - 1, B - 3, C - 5, D - 7, E - 9, F - 11, G - 13, H - 15, I - 17, J - 19, K - 21, L - 23, M - 25, N - 27
So

I	N	D	I	A	N
↓	↓	↓	↓	↓	↓

 $17+27+7+17+1+27 = 96$

3. (b) Each letter is coded by the numeral denoting its position in the English alphabet.
L A D Y P 12 - 1 - 4 - 25
4. (b) Each letter is assigned a numerical value which is twice the numerical denoting its position in the English alphabet.
 $BET = (2 \times 2) + (5 \times 2) + (20 \times 2) = 54$
5. (c) opposite letter position
Opposite of

A	Z	E	V	I	R
-	-	-	-	-	-
1	26	5	22	9	18
B	Y	F	U	J	Q
-	-	-	-	-	-
2	25	6	21	10	17
C	X	G	T	K	P
-	-	-	-	-	-
3	24	7	20	11	16
D	W	H	S	L	O
-	-	-	-	-	-
4	23	8	19	12	15
				M	N
				-	-
				13	14
6. (a) B A L L

-	-	-	-
---	---	---	---

 $2 + 1 + 12 + 12 = 27$
7. (a) G O

-	-
---	---

T	L
---	---

 $20 + 12 = 32$

S	H	E
-	-	-

H	S	V = 49
---	---	--------

S	O	M	E
-	-	-	-

H	L	N	V
---	---	---	---

 $8 + 12 + 14 + 22 = 56$
8. (c) AT = 20, BAT = $20 \times 2 = 40$
Therefore, CAT = $20 \times 3 = 60$
9. (b) By taking reverse of the given letter and then by adding 1 in their number place.

$$ZIP = (Z + I + P) \times 6$$

$$= (2 + 19 + 12) \times 6 = 198$$

$$VIP = (V + I + P) \times 6$$

$$(6 + 19 + 12) \times 6 = 222$$

10. (d) H E E L
5 2 2 9

11. (a) HOTEL = $\frac{H+O+T+E+L}{5}$,
 $\frac{8+15+20+5+20}{5} = \frac{60}{5} = 12$
 LAMB = $\frac{L+A+M+B}{4}$, $\frac{12+1+13+2}{4}$
 $= \frac{28}{4} = 7$

12. (b) Z E B R A
- - - - -
26 5 2 18 1 = 2652181
C O B R A
- - - - -

3 15 2 18 1 = 3152181
13. (a) The opposite of W is D, D's position is = 4
The opposite of O is L L's position is = 12
The opposite of R is I I's position is = 9
The opposite K is P p's position is = 16
The same way W - D = 4
O - L = 12
M - N = 14
A - Z = 26
N - M = 13

TYPE -IV

Direction(1-5) : rising prices are main problem ® ku poo qi da su (1) control the prices rising more rapidly ® ja qi chi nic poo dic..... (2) control inflation problem ® da chi pic (3) more prices affect badly ® nic ra poo mo (4) poors are rapidly affect ® tic dic ku ra (5) From (1) and (5), are ® ku

- (1) and (4), prices ® poo
 (2) and (4), more ® nic
 (1) and (3), problem ® da
 (2) and (3), control ® chi
 (1) and (2), rising ® qi
 (2) and (5), rapidly ® dic
 Now, from (2), the ® ja
 From (1), main ® su

From (3), inflation ® pic
 From (4) and (5), affect ® ra
 From (5), poors ® tic
 From (4), badly ® mo

1. (b)
 2. (c)
 3. (b)
 Control Badly Affect problems
 - - - -
 chi mo ra da
 4. (b)
 rising inflation are main concern
 - - - -
 qi pic ku su phi
 5. (b) nic dic ra poo
 - - - -
 more rapidly affect prices

(6-10)

nuclear plants are sale ® tic da
 pic ki (1)
 conserve sale nuclear energy ®
 pic ra ki su (2)
 new plants conserve radiation ®
 ba su tic mo (3)
 prevent from nuclear radiation
 ® gi mo ki fa (4)
 From (1) and (3), plants ® tic
 From (1) and (4), nuclear ® ki
 From (2) and (3), conserve ® su
 From (1) and (2), safe ® pic
 So, from (1), are ® da
 From (3) and (4), radiation ® mo
 From (3), new ® ba
 From (4), prevent from ® gi fa
 From (2), energy ® ra

6. (c)
 7. (d)
 8. (d) new energy from plants
 - - - -
 ba ra gi or fa tic
 9. (a) pic ba mo da
 - - - -
 safe new radiation are
 10. (d)
 new nuclear deal from America
 ↓ ↓ ↓ ↓ ↓
 ba ki nic gi or fa chi
 New code New code
 for new for new
 word word

(11-15)

more money in market ® zo li

aa to ... (1)
 share in market profit ® vo to
 je li ... (2)
 making more profit now ® su je
 zo ka ... (3)
 Now the market gains ® do li
 yo su ... (4)
 From (1) and (4), market ; ® li
 From (1) and (3), more ® zo
 From (1) and (2), in ® to
 So from (1) money ® aa
 From (2) and (3), profit ® je
 So from (2), share ® vo
 From (3) & (4) now ® su
 From (3), making ® ka
 From (4), the gains ® do yo
 So, gains ® do or yo

11. (c)
 12. (a)
 13. (d)
 14. (a)
 15. (d) to ka li aa
 - - - -

in making market money

(16-20):-

global recession is critical phase
 ® su zo ti ra mo (1)
 recession affects economy ® chi
 mo nic (2)
 global economy going down ®
 fa nic ti ye (3)
 hiked rates down growth ® phi
 ye koo da (4)
 critical rates ® su phi (5)
 From (1) and (2), recession ® mo
 From (1) and (3), global ® ti
 From (1) and (5), critical ® su
 Now, from (1), is phase ® zo ra
 So, phase ® either zo or ra
 From (2) and (3)/ economy ® nic
 From (3) and (4), down ® ye
 Now, from (3), going ® fa

16. (d)
 17. (d)
 18. (d) From (2), affects ® chi
 From (4), and (5), rates ® phi
 So, from (4), hiked growth ® koo
 or da
 Þ growth ® either koo or da
 Critical rates affect growth

—	—	—	—
su	phi	chi	da or koo
19. (c) mo	ye	su	phi
—	—	—	—

recession down critical rates

20. (b) World is overcome

↓ ↓ ↓

any zo or any new
new code ra code say
say 'pic' 'vo'

through critical phase

↓ ↓ ↓

any new su zo ro ra
code say
'bi'

Thus, possible code is 'pic zo ra vo su bi'

(21-25):-

launch prosecution in corrup-
tion cases ® jo ti pic su nic (1)

India launch new laws ® dic sha
chi ti (2)

new cases to investigate ® za pic
dic kee (3)

corruption curbs laws ® chi ba
nic (4)

From (1) and (2), launch ® ti

From (1) and (3), cases ® pic

From (1) and (4), corruption ®
nic

Now, from (1), prosecution in ®
jo su

Þ prosecution ® either 'o' or 'su'

Thus, we can't determine the
exact code for 'prosecution'.

From (2) and (3), new ® dic

From (2) and (4), laws ® chi

Now, from (2), India ® sha

From (3), to investigate ® za kee

So, either 'to' or 'investigate' ®
za

21. (d)

22. (d)

23. (c) From (4), curbs ® ba

India	curbs	cases
—	—	—
sha	ba	pic
24. (b) pic	da	chi
—	—	—
cases	arise	laws
—	—	—

(A new word for a new code)

25. (d)

transparency	in	new
—	—	—
mac	'jo' or 'su'	dic
—	—	—

(A new word for new code)
prosecution

'su' or 'jo'

(26-30) :

Cool waves chilled weather ® ti
chi su pic (1)

January is cool month ® ro mo
su da (2)

lovely month chilled season ®
mo pic ki nic (3)

December is cool season ® su
nic ro ne (4)

From (1) and (2), cool ® su

From (2) and (3), month ® mo

From (1) and (3), chilled ® pic

From (2) and (4), is ® ro

So, from (2), January ® da

From (1), waves weather ® ti chi

So, find exact code for 'weather'.

It may be either 'ti' or 'chi'.

26. (d)

27. (c)

28. (d) From (3) and (4), season ® nic

So, from (3), lovely ® ki

From (4), December ® ne

Chilled	December	
—	—	
pic	nic	
29. (d) ki	su	ro
—	—	—
lovely	cool	is

30. (c)

dense	fog	lovely	weather
—	—	—	—
any new	any new	ki	'ti' or 'chi'
code	code		

TYPE -V

1. (d) From matrix I, M can be coded
as 02, 14, 21, 33 or 40.

From matrix I, O can be coded
as 01, 13, 20, 32 or 44.

From matrix I, S can be coded
as 03, 10, 22, 34 or 41,

from matrix II, T can be coded
as 56, 68, 75, 87 or 99.

Clearly, (d) is the only set of
correct codes.

2. (c) From matrix I, R can be coded
as 04, 11, 23, 30 or 42.

From matrix I, O can be coded
as 01, 13, 20, 32 or 44.

From matrix II, A can be coded
as 55, 67, 79, 86 or 98.

From matrix II, D can be coded
as 57, 69, 76, 88 or 95.

Clearly only (c) contains the
correct codes.

3. (a) From matrix I, S can coded as
03, 10, 22 34 or 41.
- From matrix II, T can be coded
as 56, 68, 75, 87 or 99.
- From matrix I, O can be coded
as 01, 13, 20, 32 or 44.
- From matrix II, P can be coded
as 59, 66, 78, 85 or 97.
4. (b) Form matrix I, F can be coded
as 00, 12, 24, 31 or 43
- From matrix I, O can be coded
as 01, 13, 20 32 or 44.
- From matrix II, A can be coded
as 55, 67, 79 86 or 98.
- From matrix I, M can be coded
as 02, 14, 21, 33 or 40.
5. (d) From matrix I, E can be coded
as 01, 13, 20, 32 or 44.
- From matrix I, A can be coded
as 00, 12, 24, 31 or 43
- From matrix I, S can be coded
as 02, 14, 21, 33 or 40.
- From matrix I, T can be coded
as 03, 10, 22, 34 or 41.
6. (a) From matrix II, R can be coded
as 57, 69 76, 88 or 95.
- From matrix II, O can be coded
as 56, 68 75, 87 or 99.
- From matrix I, S can be coded
as 02, 14, 21, 33 or 40.
- From matrix I, E can be coded
as 01, 13, 20, 32 or 44.
7. (b) From matrix I, S can be coded
as 02, 14, 21, 33 or 40.
- From matrix II, O can be coded
as 56, 68, 75, 87 or 99.
- From matrix II, L can be coded
as 59, 66, 78, 85 or 97.
- From matrix I, E can be coded
as 01, 13, 20, 32 or 44.
8. (c) From matrix II, L can be coded
as 59, 66, 78, 85 or 97.
- From matrix I, A can be coded
as 00, 12, 24, 31 or 43.
- From matrix II, K can be coded
as 58, 65, 77, 89 or 96.
- From matrix I, E can be coded
as 01, 13, 20, 32 or 44.

9. (a) From matrix II, L can be coded as 59, 66, 78, 85 or 97.
From matrix I, E can be coded as 01, 13, 20, 32 or 44.
From matrix I, S can be coded as 02, 14, 21, 33 or 40.
From matrix I, T can be coded as 03, 10, 22, 34 or 41.
10. (a) From matrix I, N can be coded as 02, 14, 21, 33 or 40.
From matrix II E can be coded as 56, 67, 78, 85 or 97.
From matrix II, S can be coded as 55, 66, 77, 89 or 96.
From matrix II, T can be coded as 59, 68, 76, 87 or 95
11. (b) From matrix I, F can be coded as 00, 12, 24, 31, or 43.
From matrix I, A can be coded as 01, 13, 20, 34 or 42.
From matrix I, I can be coded as 04, 10, 23, 32 or 41.
From matrix II, T can be coded as 59, 68, 76, 87 or 95.
From matrix II, H can be coded as 57, 65, 79, 86 or 98.
12. (d) From matrix I, F can be coded as 00, 12, 24, 31 or 43.
From matrix I, I can be coded as 04, 10, 23, 32 or 41.
From matrix I, N can be coded as 02, 14, 21, 33 or 40.
From matrix II, E can be coded as 56, 67, 78, 85 or 97.
13. (c) From matrix II, H can be coded as 57, 65, 79, 86 or 98.
From matrix II, E can be coded as 56, 67, 78, 85 or 97.
From matrix I, A can be coded as 01, 13, 20, 34 or 42.
From matrix II, T can be coded as 59, 68, 76, 87 or 95.
14. (b) From matrix II, B can be coded as 58, 69, 75, 88 or 99.
From matrix I, O can be coded as 03, 11, 22, 30, or 44.
From matrix II, T can be coded as 59, 68, 76, 87 or 95.
From matrix II, H can be coded as 57, 65, 79, 86 or 98.
15. (d) From matrix I, D can be coded as 00, 14, 23, 32 or 41.
- From matrix II, R can be coded as 57, 66, 75, 89 or 98.
From matrix I, A can be coded as 03, 12, 21, 30 or 44.
From matrix II, W can be coded as 55, 69 78, 87 or 96.
16. (b) From matrix I, B can be coded as 02, 11, 20, 34 or 43.
From matrix I, A can be coded as 03, 12, 21, 30 or 44.
From matrix II, N can be coded as 56, 65, 79, 88 or 97.
From matrix I, D can be coded as 00, 14, 23, 32 or 41.
17. (a) From matrix I, B can be coded as 02, 11, 20, 34 or 43.
From matrix II, L can be coded as 59, 68, 77, 86 or 95.
From matrix I, O can be coded as 01, 10, 24, 33 or 42.
From matrix II, W can be coded as 55, 69, 78, 87 or 96.
18. (a) From matrix II, R can be coded as 57, 66, 75, 89 or 98.
From matrix I, A can be coded as 03, 12, 21, 30 or 44.
From matrix I, I can be coded as 04, 13, 22, 31 or 40.
From matrix II N can be coded as 56, 65, 79, 88 or 97.
19. (a) From matrix II, L can be coded as 59, 68, 77 86 or 95.
From matrix I, A can be coded as 03, 12, 21, 30 or 44.
From matrix II, M can be coded as 58, 67, 76, 85 or 99.
From matrix I, B can be coded as 02, 11, 20, 34 or 43.
20. (c) M can be coded as 01, 34 or 08; I can be coded as 00, 61, 92, 33, 87, 18 or 88; N can be coded as 50, 81 or 73; D can be coded as 86, 17 or 39.
21. (b) J can be coded as 32 83 or 35; A can be coded as 80, 11, 42, 23, 05, 65, 75 or 58; I can be coded as 00, 61, 92, 33, 87, 18 or 88; L can be coded as 10, 25 or 96.
22. (d) B can be coded as 20, 62 or 24; L can be coded as 10, 25 or 96; O can be coded as 71, 63, 14, 57, 97, 29 or 79; T can be coded as 41, 03 or 95.
23. (a) J can be coded as 32, 83 or 35; O can be coded as 71, 63, 14, 57, 97, 29 or 79; K can be coded as 40, 74 or 56; E can be coded as 90, 72, 44, 36, 48, 78, 19 or 49.
24. (a) O can be coded as 71, 63, 14, 57, 97, 29 or 79; M can be coded as 01, 34 or 08; I can be coded as 00, 61, 92, 33, 87, 18 or 88; T can be coded as 41, 03 or 95.
25. (b) D P 21 E P 75
A P 97 L P 68
26. (b) F P 33 I P 86
S P 88 H P 41
27. (c) P P 43 E P 56
N P 21 S P 42
28. (b) P P 85 E P 00
N P 95
29. (a) N P 95 I P 30
F P 32 E P 43
30. (c) T P 10 E P 75
M P 32 P P 96
T P 78
31. (a) M P 12 I P 67
L P 32 K P 99
32. (a) L P 75 A P 21
M P 13 B P 45
33. (d) D P 57 O P 13
O P 32 R P 23
34. (c) M P 30 E P 56
A P 21 L P 67
35. (c) P P 10 U P 45
S P 66 H P 75
36. (b) M P 40 I P 58
S P 03 T P 56
37. (d) B P 57 E P 32
A P 41 D P 87
38. (b) D P 57 A P 55
R P 04 T P 56
39. (b) S P 67 T P 79
R P 22 O P 86
N P 20 G P 21
40. (b) M P 42 A P 43
R P 22 B P 87
L P 57 E P 66
41. (d) R P 76 E P 01
S P 65 T P 59

42.	(c)	J ♢ 75	A ♢ 43		R ♢ 40	T ♢ 58		M ♢ 27	E ♢ 49		
		D ♢ 10	E ♢ 23	61.	(b)	P ♢ 95	O ♢ 00	80.	(a)	A ♢ 46	P ♢ 48
43.	(a)	S ♢ 44	L ♢ 11			L ♢ 22	O ♢ 44			E ♢ 49	S ♢ 44
		E ♢ 40	E ♢ 31	62.	(d)	R ♢ 68	O ♢ 33	81.	(a)	P ♢ 00	E ♢ 55
		P ♢ 41				S ♢ 65	T ♢ 58			A ♢ 22	R ♢ 11
44.	(b)	R ♢ 96	O ♢ 95	63.	(b)	S ♢ 98	I ♢ 96			L ♢ 96	
		S ♢ 44	E ♢ 40			X ♢ 85	K ♢ 42	82.	(c)	O ♢ 98	R ♢ 03
45.	(a)	K ♢ 04	J ♢ 79			I ♢ 78	D ♢ 88			G ♢ 44	A ♢ 22
		A ♢ 20	T ♢ 87			S ♢ 77				N ♢ 58	
46.	(d)	C ♢ 31	A ♢ 00	64.	(d)	L ♢ 14	O ♢ 30	83.	(a)	E ♢ 99	A ♢ 01
		S ♢ 75	T ♢ 44			V ♢ 67	E ♢ 68			G ♢ 44	L ♢ 96
47.	(a)	S ♢ 67	P ♢ 55	65.	(c)	M ♢ 66	U ♢ 03			E ♢ 77	
		O ♢ 31	R ♢ 57			T ♢ 20	E ♢ 95	84.	(a)	B ♢ 44	E ♢ 75
		T ♢ 69	S ♢ 87	66.	(a)	Y ♢ 23	E ♢ 57			A ♢ 22	K ♢ 88
48.	(d)	C ♢ 44	A ♢ 62			A ♢ 15	R ♢ 60	85.	(d)	P ♢ 87	E ♢ 11
		L ♢ 65	M ♢ 51	67.	(c)	M ♢ 98	I ♢ 86			R ♢ 22	S ♢ 24
49.	(a)	P ♢ 56	A ♢ 00			L ♢ 77	K ♢ 99			O ♢ 67	N ♢ 04
		R ♢ 77	R ♢ 88	68.	(d)	R ♢ 12	E ♢ 04	86.	(A)	F ♢ 02	I ♢ 03
		O ♢ 86	T ♢ 99			S ♢ 90	T ♢ 78			R ♢ 57	E ♢ 01
50.	(c)	C ♢ 11	A ♢ 33	69.	(a)	W ♢ 58	A ♢ 10	87.	(a)	R ♢ 59	U ♢ 99
		R ♢ 57	D ♢ 22			R ♢ 67	D ♢ 75			D ♢ 34	E ♢ 11
51.	(d)	K ♢ 57	P ♢ 11	70.	(a)	F ♢ 76	A ♢ 02	88.	(b)	R ♢ 67	O ♢ 96
		R ♢ 33	S ♢ 96			D ♢ 75	E ♢ 32			D ♢ 57	
52.	(c)	B ♢ 24	E ♢ 22	71.	(c)	F ♢ 31	A ♢ 34	89.	(d)	N ♢ 95	O ♢ 55
		A ♢ 23	S ♢ 58			I ♢ 23	T ♢ 76			W ♢ 34	
		T ♢ 59				H ♢ 79		90.	(a)	D ♢ 14	R ♢ 89
53.	(d)	S ♢ 21	N ♢ 23	72.	(c)	B ♢ 52	E ♢ 20			A ♢ 12	W ♢ 78
		O ♢ 54	W ♢ 52			E ♢ 15		91.	(a)	R ♢ 67	O ♢ 96
54.	(d)	P ♢ 43	L ♢ 65	73.	(d)	L ♢ 76	O ♢ 95			A ♢ 56	D ♢ 57
		A ♢ 62	Y ♢ 45			A ♢ 20	D ♢ 32	92.	(c)	D ♢ 40	E ♢ 95
55.	(d)	B ♢ 24	E ♢ 22	74.	(d)	D ♢ 57	A ♢ 13			B ♢ 14	R ♢ 58
		S ♢ 77	T ♢ 97			K ♢ 23	U ♢ 21			I ♢ 34	S ♢ 69
56.	(c)	G ♢ 30	O ♢ 65	75.	(b)	S ♢ 98	L ♢ 04	93.	(d)	B ♢ 55	R ♢ 21
		D ♢ 40				O ♢ 66	W ♢ 96			I ♢ 57	D ♢ 86
57.	(b)	C ♢ 20	A ♢ 00	76.	(d)	B ♢ 11	L ♢ 66			E ♢ 22	
		G ♢ 65	E ♢ 40			A ♢ 12	C ♢ 20	94.	(c)	B ♢ 87	E ♢ 13
58.	(c)	P ♢ 69	I ♢ 11			K ♢ 57				A ♢ 43	R ♢ 21
		N ♢ 99	K ♢ 41	77.	(c)	A ♢ 43	I ♢ 55			D ♢ 88	
59.	(d)	S ♢ 89	O ♢ 03			R ♢ 86	S ♢ 95	95.	(a)	T ♢ 64	A ♢ 00
		F ♢ 12	T ♢ 98	78.	(c)	L ♢ 31	A ♢ 87			L ♢ 31	E ♢ 32
60.	(b)	C ♢ 66	A ♢ 12			N ♢ 32	E ♢ 88				
				79.	(b)	R ♢ 23	O ♢ 25				

